

COUNTY OF PLACER
DEPARTMENT OF PUBLIC WORKS

**NOTICE TO BIDDERS &
SPECIAL PROVISIONS**
BID NO. TBD

FOR

**2022 ROADWAY RUBBERIZED HOT MIX ASPHALT
OVERLAY & SURFACE TREATMENT PROJECT**
VARIOUS LOCATIONS IN PLACER COUNTY

CONTRACT NO. TBD
PROJECT NO. PJ01942/PJ01943



FOR USE IN CONNECTION WITH AMENDED STANDARD SPECIFICATIONS DATED 2018, STANDARD PLANS DATED 2018, REVISED STANDARD PLANS AND SPECIFICATIONS DATED 2020, AND LABOR SURCHARGE AND EQUIPMENT RATES OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION INSOFAR AS THE SAME MAY APPLY AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

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FOR INFORMATION ONLY
NOT FOR CONSTRUCTION

SPECIAL NOTICES

- Contract requires Contractor to start work 5 days after receiving Notice to Proceed (NTP). For additional details see section 8-1.04B.

CONTRACT NO. TBD

The special provisions contained herein have
been prepared by or under the direction of the
following Registered Persons.



Matthew Randall, Registered Civil Engineer



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**PLACER COUNTY
2022 ROADWAY HOT MIX ASPHALT OVERLAY & SURFACE TREATMENT
PROJECT
CONTRACT NO. TBD / PROJECT NO. TBD**

TABLE OF CONTENTS

NOTICE TO BIDDERS	1
COPY OF BID ITEM LIST	3
ROADWAY RUBBERIZED HOT MIX ASPHALT OVERLAY SPECIAL NOTES	5
RUBBERIZED HOT MIX ASPHALT OVERLAY LIST OF ROADS	10
MAPS AND DETAILS	12
MAP 01	13
MAP 02	13
MAP 03	14
SPECIAL PROVISIONS.....	24
DIVISION I GENERAL PROVISIONS.....	24
1 GENERAL.....	24
2 BIDDING.....	28
3 CONTRACT AWARD AND EXECUTION	30
4 SCOPE OF WORK.....	32
5 CONTROL OF WORK.....	32
6 CONTROL OF MATERIALS.....	36
7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC.....	36
8 PROSECUTION AND PROGRESS	44
9 PAYMENT	45
DIVISION II GENERAL CONSTRUCTION	48
10 GENERAL	48
12 TEMPORARY TRAFFIC CONTROL.....	50
14 ENVIRONMENTAL STEWARDSHIP	53
DIVISION V SURFACINGS AND PAVEMENTS	54
37 BITUMINOUS SEALS	54
39 ASPHALT CONCRETE	68
DIVISION VII DRAINAGE FACILITIES.....	70
71 EXISTING DRAINAGE FACILITIES.....	70
DIVISION VIII MISCELLANEOUS CONSTRUCTION	70
78 INCIDENTAL CONSTRUCTION	70

STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSPs) listed below are included in the project plans.

ABBREVIATIONS, LINES, SYMBOLS, AND LEGEND

- Abbreviations (Sheet 1 of 3)
- Abbreviations (Sheet 2 of 3)
- Abbreviations (Sheet 3 of 3)
- Legend - Lines and Symbols (Sheet 1 of 5)
- Legend - Lines and Symbols (Sheet 2 of 5)
- Legend - Lines and Symbols (Sheet 3 of 5)
- Legend - Lines and Symbols (Sheet 4 of 5)
- Legend - Lines and Symbols (Sheet 5 of 5)

OBJECT MARKERS, DELINEATORS, CHANNELIZERS, AND BARRICADES

- Markers
- Delineators, Channelizers and Barricades

MIDWEST GUARDRAIL SYSTEM - STANDARD RAILING SECTIONS

- Midwest Guardrail System - Standard Railing Section (Wood Post with Wood Block)
- Midwest Guardrail System - Standard Hardware
- Midwest Guardrail System - Wood Post and Wood Block Details
- Midwest Guardrail System - Typical Line Post Embedment and Hinge Point Offset Details
- Midwest Guardrail System - Typical Railing Delineation and Dike Positioning Details

CURBS, DRIVEWAYS, DIKES, CURB RAMPS, AND ACCESSIBLE PARKING

- Hot Mix Asphalt Dikes

PAVEMENTS

- Hot Mix Asphalt Paving (Longitudinal Tapered Notched Wedge Joint)
- Pavement Edge Treatments
- Pavement Edge Treatments - Overlays
- Pavement Edge Treatments - New Construction

TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN

- Temporary Crash Cushion, Sand Filled (Unidirectional)
- Temporary Crash Cushion, Sand Filled (Bidirectional)
- Temporary Crash Cushion, Sand Filled (Shoulder Installations)
- Temporary Railing (Type K)
- Temporary Railing (Type K)

TEMPORARY TRAFFIC CONTROL SYSTEMS

- Traffic Control System for Lane Closure on Two Lane Conventional Highways
- Traffic Control System for Moving Lane Closure on Two Lane Highways

TEMPORARY WATER POLLUTION CONTROL

- Temporary Water Pollution Control Details (Temporary Silt Fence)
- Temporary Water Pollution Control Details (Temporary Fiber Roll)
- Temporary Water Pollution Control Details (Temporary Check Dam)
- Temporary Water Pollution Control Details (Temporary Construction Entrance)
- Temporary Water Pollution Control Details (Temporary Concrete Washout Facility)
- Temporary Water Pollution Control Details (Temporary High-Visibility Fence)

ROADSIDE SIGNS

- Roadside Signs - Typical Installation Details No. 1
- Roadside Signs - Wood Post - Typical Installation Details No. 2
- Roadside Signs - Typical Installation Details No. 4

NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN that sealed bids will be received by the County of Placer herein referred to as "County," at the Office of Procurement Services, located at 2964 Richardson Drive, Auburn, CA 95603 prior to **11:00:00 a.m., TBD**, for furnishing all labor, material, tax, transportation, equipment, and services necessary for **PLACER COUNTY 2022 ROADWAY RUBBERIZED HOT MIX ASPHALT OVERLAY & SURFACE TREATMENT PROJECT, BID NO. TBD, PROJECT NO. PJ01942/PJ01943.**

Bids will be opened and tabulated at said location immediately after said date and time. Any bids received after the time specified shall be returned unopened.

NTC-1. Description of Work: The work consists of overlaying approximately 2.5 miles of road with rubberized hot mix asphalt and 10 miles of road with type 2 microsurface and asphalt rubber chip seal. Work to be performed on County roads located in western and eastern Placer County, and within the Town of Loomis and City of Auburn, and other items and details, not mentioned above, that are required by the plans, specifications or the Special Provisions.

The Engineer's Estimate for this project is **\$2,400,000.**

The Number of Working Days for this project is **20.**

There is no DBE goal.

NTC-2. Obtaining Contract Documents: Official copies of the Contract Documents for bidding may be downloaded free of charge at the following link: <https://placer.bidsandtenders.net>.

Questions regarding the Work or the contract Documents shall be submitted online on the bids&tenders™ website.

Inquiries or questions based on alleged patent ambiguity of the plans, specifications or estimate must be communicated as a bidder inquiry prior to bid opening. Any such inquiries or questions, submitted after bid opening, will not be treated as a bid protest.

NTC-3. Pre-bid Conference: There will be no pre-bid conference.

NTC-4. Construction License: The successful bidder must possess at all times, at minimum, a valid California Class A license or a combination of California Class C licenses which constitutes a majority of the work.

NTC-5. Proposal Guarantee: See "Security Instructions" section of this bid in bids&tenders™ for Bid Security requirements.

NTC-6. Submission of Proposals: Bids must be received by the County prior to the hour and date of the bid opening. Bids shall be submitted to the bids&tenders™ website.

Bids shall be made upon the form(s) provided in the bid documents. No bidder may withdraw its bid for a period of **Sixty (60) days** after the time set for the opening of bids.

NTC-7. Prevailing Wages: The Work is subject to the payment of not less than prevailing wages under Labor Code Section 1770 et seq. Bidders are hereby notified that the Director of Industrial Relations has ascertained the general prevailing rate of per diem wages and the rates for overtime and holiday work in the locality in which the work is to be performed for each craft, classification or type of worker needed to perform the Work under the contract which will be awarded to the successful bidder. Copies are on file with and available upon request from the Department of Facility Services or at <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>. Bidders are further notified that this project is

subject to compliance monitoring and enforcement by the Department of Industrial Relations. Further information on Compliance Monitoring Unit requirements can be found at <https://www.dir.ca.gov/dlse/cmu/cmu.html>.

No contractor or subcontractor may be listed on a bid proposal for a public works project submitted on or after March 1, 2015 unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5, with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a).

No contractor or subcontractor may be awarded a contract for public work on a public works project awarded on or after April 1, 2015 unless registered with the Department of Industrial relations pursuant to Labor Code section 1725.5.

Contractor agrees to comply with all related provisions of the Labor Code, including but not limited to, the provisions of Labor Code Section 1775 relating to the payment of prevailing wages, Section 1777.5 relating to the employment of apprentices and Section 1811-1813 relating to the payment of Overtime.

NTC-8. Award: The Contract, if it is awarded, shall be awarded to the lowest responsible bidder whose proposal complies with the specified requirements. The award of Contract will be made by the Board of Supervisors. The Contractor shall execute and return the Contract, with the required bonds and insurance certificate, within ten (10) calendar days after notice of award.

NTC-9. Rejection of Bids: The County reserves the right to reject any or all bids. The County reserves the right to waive any minor or immaterial irregularities in the bids.

NTC-10. Bonds: The successful bidder shall be required to furnish both a payment bond in an amount equal to one hundred percent (100%) of the Contract price and a faithful performance bond in an amount equal to one hundred percent (100%) of the Contract price on the form set forth in the Contract Documents.

NTC-11. Bid Security & Substitution of Securities: Submit your bid with bidder's security equal to at least 10 percent of the bid. Bidders are informed that, pursuant to Public Contract Code section 22300, the successful bidder may substitute securities for any monies withheld by the County to insure performance of the Work.

NTC-12. Nondiscrimination: This contract is subject to state contract nondiscrimination and compliance requirements pursuant to Government Code, Section 12990. The County of Placer affirms that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation.

NTC 13. Notices of Suspension and Debarment: The California Department of Transportation has made available Notices of Suspension and Proposed Debarment from the Federal Highway Administration. For a copy of the notices, go to http://www.dot.ca.gov/hq/esc/oe/contractor_info. Additional information is provided in the Excluded Parties List System at <https://www.epls.gov>.

By order of the Placer County Board of Supervisors July 6, 2021.

COPY OF BID ITEM LIST
2022 ROADWAY HOT MIX ASPHALT OVERLAY & SURFACE TREATMENT PROJECT
(NOT TO BE USED FOR BIDDING PURPOSE)

Item No.	P F W	Item Code	BID ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY
			AREA 1: WESTERN PLACER COUNTY		
1		120100	TRAFFIC CONTROL SYSTEM (AREA 1)	LS	1
2		128651	PORTABLE CHANGEABLE MESSAGE SIGN (AREA 1)	EA	3
3		130200	WATER POLLUTION CONTROL PROGRAM	LS	1
4		398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	9,976
5		393004	GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC)	SQYD	23,000
6		390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED 1/2" PG 64-16)	TON	3,100
7		012743	4" THERMOPLASTIC TRAFFIC STRIPE	LF	1,024
8		846009	8" THERMOPLASTIC TRAFFIC STRIPE	LF	2,160
9		840516	THERMOPLASTIC PAVEMENT MARKINGS	SQFT	1,409
10			INDUCTIVE LOOP DETECTOR	EA	10
11		378000A	TYPE 2 MICROSURFACE	TON	431
12		370000A	ASPHALT RUBBER CHIP SEAL	SY	88,999
13		780258	ADJUST MANHOLE FRAME AND COVER	EA	9
14		710208	ADJUST VALVE FRAME AND COVER TO GRADE	EA	13
15		710208	ADJUST DRAINAGE INLET / COM VAULT FRAME AND COVER TO GRADE	EA	1
16		999990	MOBILIZATION (AREA 1)	LS	1
			AREA 2: EASTERN PLACER COUNTY		
17		120100	TRAFFIC CONTROL SYSTEM (AREA 2)	LS	1
18		128651	PORTABLE CHANGEABLE MESSAGE SIGN (AREA 1)	EA	3
19		130200	WATER POLLUTION CONTROL PROGRAM	LS	1
20		398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	2,311
21		393004	GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC)	SQYD	44,300
22		390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED 1/2" PG 64-16)	TON	6,000
23		780258	ADJUST MANHOLE FRAME AND COVER	EA	15
24		710208	ADJUST VALVE FRAME AND COVER TO GRADE	EA	15

Item No.	P F W	Item Code	BID ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY
25		999990	MOBILIZATION (AREA 2)	LS	1

When an item of work is designated as (F) or (P-F) in the Engineer's Estimate, the estimate quantity shall be the final pay quantity. When an item of work is designated as (P) or (P-F) in the Engineer's Estimate, then that item is subject to partial payment as materials furnished but not incorporated in the work. The Department does not adjust the unit price for an increase or decrease in the bid item quantity of items indicated by a (W) in the bid list.

ROADWAY RUBBERIZED HOT MIX ASPHALT OVERLAY SPECIAL NOTES

GENERAL:

1. This project references the 2018 Caltrans Standard Specifications and the Hot Mix Asphalt construction guidelines found on the Caltrans website. Production and placing of Hot Mix Asphalt (HMA) shall conform to the Section 39 of the Standard Specifications and the special provisions contained herein. They can be accessed on the Caltrans website:
<https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>
2. The contractor is responsible to obtain a Caltrans “double permit” for work in Tahoe along Highway 89 and 267.
3. The contractor is responsible to notify area residents and businesses of pending work. Notices are to be made no more than three weeks in advance of work, nor less than five days in advance of work.
4. RHMA for all sites shall be ½” Rubberized Hot Mix Asphalt – Gap Graded (RHMA-G) and using PG64-16 Grade Asphalt. RHMA-G shall be placed when the atmospheric temperature is above 65 Degrees Fahrenheit and rising.
5. Binder material for RHMA at all sites must contain a minimum of 300 lbs (equivalent to 15% by weight) of tire-derived crumb rubber per ton of rubberized binder. The binder may be either asphalt rubber/field blend or terminal blend.
6. Only California—generated waste tires, processed in California , shall be used in the crumb rubber portion of the project. Recycled end-of-life crumb rubber that meets all specifications and standards can be used, as appropriate.
7. Provide the supporting documentation that validates only California-generated waste tires were used for this grant project and that the waste tires were processed in California. Acceptable forms of supporting documentation include: Certificate of Origin (if completed by a California Processor) or a Bill of Lading and Manifest documentation for non-California processors. ! CalRecycle 739-TRP (Rev. 8/13) form to be filled out by Contractor.
<https://calrecycle.ca.gov/funding/forms/>
8. The construction processes shall be “Method Compaction” as defined in section 39.
9. Utilize an approved Safety EdgeSM system to create a sloped edge profile onto the roadway shoulder, as seen on Detail C, and these Special Provisions.
<http://www.fhwa.dot.gov/everydaycounts/technology/safetyedge/specs.cfm>.
10. All RHMA thickness shall be as shown on the site maps. All driveways shall conform to Details A & B of Sheet 1 of the Typical Details.
11. All road intersections shall conform to Detail A of Sheet 1 of the Typical Details, except as otherwise shown.
12. Attention is directed to Section “Spreading and Compacting Equipment”, in Section 39 of the Standard Specifications. Unless otherwise noted, all equipment requirements (vibratory, static, and pneumatic rollers) shall be strictly adhered to.
13. Loose or extraneous material shall be removed from the areas to be paved prior to work.
14. Construction joints shall be made on the road centerline and not within a traveled lane unless approved by the Engineer.

15. The Contractor shall contact USA North 811 prior to the start of work. The Contractor shall cooperate with Pacific Bell, Pacific Gas and Electric, Southwest Gas, and other utilities that may be raising their own manholes and utility boxes to grade.
16. The existing asphalt pavement shall be removed by grinding at paving transitions per Details D & E of Sheet 2 of the Typical Details. The contractor is responsible for disposal of all grindings.
17. Rubberized Hot Mix Asphalt pavement overlay shall transition to existing pavement and A.C. dike, as per Details A & B of Sheet 1 of the Typical Details, and Detail C of Sheet 2 of the Typical Details.
18. All pay quantities are English units.
19. The full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays and designated legal holidays, after 3:00 p.m. on Fridays and the day preceding designated legal holidays, and when construction operations are not actively in progress.
20. Contractor is responsible for placement and maintenance of temporary pavement markings and lane line delineation.

TAHOE AREA SPECIAL NOTICES:

21. A minimum of three changeable message boards shall be placed in the each subdivision, 5 days prior to the start of paving, unless otherwise noted, and shall remain in place through the duration of the paving operation unless otherwise noted.
22. Work in the Tahoe area (bid items 17-25) must be completed after September 5th, 2022 (Labor Day).

SPECIAL TRAFFIC CONTROL CONSIDERATIONS:

23. The Contractor shall submit a separate traffic control plan for roads in the Tahoe area. The Contractor shall include placement of changeable message boards in the Tahoe area to the satisfaction of the Engineer and Caltrans encroachment permit.

SURFACE TREATMENT SPECIAL NOTES

GENERAL:

1. The three types of surface treatment are shown on the attached list of roads and location maps.
 - a. Roads that only receive Type 2 microsurfacing are denoted as "MICRO" on the attached list of roads and maps. Micro roads total approximately 2 miles.
 - b. Roads that receive only a 3/8" rubberized chip seal are denoted as "RCHIP" on the attached list of roads and maps. RCHIP roads total approximately 8 miles in length.
 - c. Roads that receive both type 2 microsurfacing and 3/8" rubberized chip seal are denoted as "RCAPE" on the attached list of roads and maps. RCAPE roads total approximately 7 miles in length.
 - d. Total combined resurfacing length of each individual type of treatments (micro + rchip + rcape) is approximately 21 miles.
2. There is no separate bid item for roadways that will receive the Cape Seal treatment. All Type 2 microsurfacing will be paid for by the ton. All 3/8" rubberized chip seal will be paid by the square yard, whether or not it is covered by microsurfacing.
3. The Contractor must calibrate all trucks before starting work on the project. The Contractor must calibrate each microsurfacing or chip truck for the material source to be used. If material source changes, trucks are to be calibrated for the new source. No work may begin until all trucks are calibrated by Contractor.
4. **FULL CLOSURES OF NEIGHBORHOODS WILL NOT BE ALLOWED.** Alternating AM/PM closures of roadway is allowed if properly posted and notified. The Contractor must submit traffic control plans **one (1) week prior** to the pre-job conference and the plans must be approved by the Engineer before work can begin. The traffic control plan shall detail proposed detour routes and intersections that will be manned by a flagger. Traffic control plans must include the use three (3) portable changeable message signs placed in neighborhoods at least 24-hours prior to the start of work as a notification to residents. The Contractor must submit changes in the traffic control plan, and they must be approved by the Engineer three (3) working days before work can continue.
5. The Contractor must submit Notice to Property Owner at the pre-job conference and it must be approved by the Engineer one (1) week prior to the start of work. The Notice must contain a contact telephone number (see item 7 below) for a contractor representative **and must clearly notify residents that cars parked in driveways will be trapped for the duration of the sealing operation.**
6. The Contractor shall maintain a **call center** that is staffed by a live operator, utilizing a land line, who can respond to inquiries from the public. A live person shall be available at all times that the Contractor is working.
7. The Contractor must post the Notice to Property Owner a minimum of 3 working days prior to the start of work on a roadway. For posting purposes only, Saturday will be considered a working day. The Contractor may propose alternate noticing options. A two working day option will be considered, provided an advance seven calendar day preliminary notification has been made to residents. **All No Parking signs posted on the roadway must be new and clearly indicate the date and time of the scheduled parking restrictions. If a road is rescheduled, all reposted signs must be new.**

8. The Contractor must notify the local garbage collection companies of their schedule **3 working days** in advance of their operation. The Contractor must coordinate their schedule so as not to have trash pick-up for at least two days after placement of microsurfacing. Same day trash collection will only be acceptable if Contractor places surface treatments after trash collection has taken place.
9. Rock tags, oil tags, and rev counts for microsurfacing are to be reported at the end of each work day to the Engineer. **Failure to submit this information within 48 hours of a completed day of work will be cause for immediate suspension of all work activities until such time that an accurate accounting of total microsurface tons used to date can be made.**
10. **Any and all micro material tracked or dropped onto local roadways must be swept or scraped up immediately so as to avoid formation of “cookies” in the travelled way.**
11. **If it is determined that the rev counts for any day’s work are erroneous, payment for that day’s work will be paid at an assumed rate of 10 lbs/sy.**
12. **Without exception, all roads must be opened to through traffic by 5:00 pm each day. See Section 12 of the Standard Specifications and Special Provisions.**
13. The Contractor must ensure that fire hydrant blue reflectors are replaced. See Section 12 of the Standard Specifications and Special Provisions.
14. On cape seal roads, the Contractor shall “step down” the two layers to match existing manholes and water valves (utility boxes). For the chip seal layer, the Contractor shall only place chips to 1’ beyond the outside dimension of the utility box. For the top layer, the Contractor shall place the microsurfacing to the edge of the box. If the Contractor fails to adhere to this requirement, the Contractor shall adjust the existing utility box to the new finished pavement surface
15. The Contractor must turn in **daily sweeping logs** to verify required post-placement sweeping for both the **chip seal and microsurfacing post-sweeping.**
16. Placement of the 3/8” chip seal must cover the entire area of existing pavement, including all roadway radii, curb returns, and cul-de-sac bulbs.
17. The total lbs/sy of all microsurfacing (**aggregate and emulsion**), including the Tahoe area, shall not exceed an average of 17.4 lbs/sy
18. The anticipated date of award by the County Board of Supervisors is early August 2021. Microsurfacing work shall not begin in neighborhoods until local schools have let out for the summer, typically the second week of June, and be completed prior to the commencement of the school year, typically early August. Contractor may begin work within 10 calendar days after the contract has been approved by the Placer County Board of Supervisors and having received the Notice to Proceed (NTP) by Placer County on “non-school route” roadways. The Contractor may begin construction activities at the project site earlier than 10 calendar days after the contract has been approved but only after compliance is achieved with the requirements regarding submittal acceptance or approval of the documents specified in section 4 of the special provisions.
19. The contractor is responsible to obtain a Caltrans “double permit” for work in Auburn along Highway 49.

20. Raise ten (10) standard manhole utility frames between 1-3 inches in the Auburn area as directed by the Engineer.

SPECIAL TRAFFIC CONTROL CONSIDERATIONS:

21. The Contractor shall submit a separate traffic control plan for roads in the Tahoe area. The Contractor shall include placement of changeable message boards in the Tahoe area to the satisfaction of the Engineer and Caltrans encroachment permit.

RUBBERIZED HOT MIX ASPHALT OVERLAY LIST OF ROADS

MAP PAGE	AREA	STREET NAME	APPROXIMATE LENGTH (FT)
1	WEST – GRANITE BAY	INTERSECTION OF DOUGLAS AND AUBURN FOLSOM RD	800
2	WEST – ROSEVILLE	OLD AUBURN RD	2,630
		SUBTOTAL LENGTH (FT):	3,430
		SUBTOTAL LENGTH (MI):	.65
3	EAST – KINGSWOOD	N NATIONAL AVE	664
3	EAST – KINGSWOOD	BROCKWAY CT	245
3	EAST – KINGSWOOD	CAMBRIDGE DR	978
4	EAST – HOMEWOOD	CHAMBERLAND DR	2,266
4	EAST – HOMEWOOD	ELLIS RD	1,288
4	EAST – HOMEWOOD	LODGE DR	407
4	EAST – HOMEWOOD	FLICKER AVE	500
4	EAST – HOMEWOOD	GROUSE DR	3,008
		SUBTOTAL LENGTH (FT):	9,356
		SUBTOTAL LENGTH (MI):	1.8
		TOTAL LENGTH (FT):	12,786
		TOTAL LENGTH (MI):	2.4

SURFACE TREATMENT LIST OF ROADS

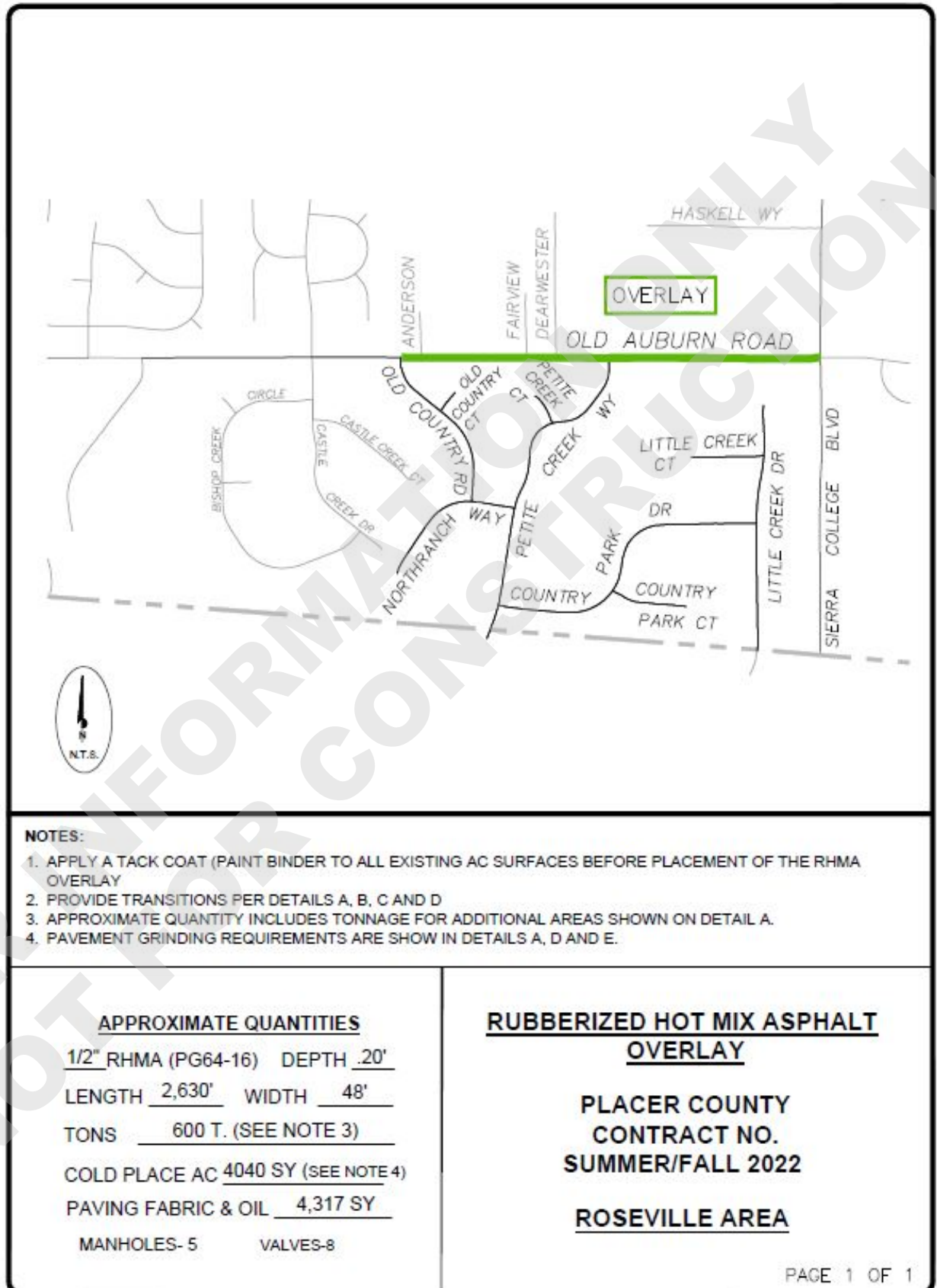
MAP PAGE	TYPE	STREET NAME	BEG	END	APP. LENGTH (FT)	APP. AREA (SQ YD)
<u>AREA 1-WESTERN PLACER COUNTY</u>						
5	RCHIP	FILLMORE AV	FOWLER AVE	GRAND VIEW AVE	927	1706
5	RCHIP	FOREST AV	IOWA HILL RD	SIEMS RD	1576	2627
5	RCHIP	FOWLER AV	IOWA HILL RD	FILLMORE AVE	819	1456
5	RCHIP	GRAND VIEW AV	IOWA HILL RD	END	2177	4896
5	RCHIP	SIEMS AV	CANYON WY	GRAND VIEW AV	869	1911
6	RCHIP	CATSKILL DR	WASHINGTON IRVING DR	END	844	3225
6	RCHIP	KNICKERBOCKER CT	WASHINGTON IRVING DR	END	263	1206
6	RCHIP	WASHINGTON IRVING DR	CANYON WY	WASHINGTON IRVING DR	6103	20489
6	RCHIP	MANZANITA WY	WASHINGTON IRVING DR	END	1058	2982
6	RCHIP	HAWTHORNE RD	WASHINGTON IRVING DR	END	311	838
7	RCHIP	DANIELS DR	LUTHER RD	END	1332	3552
7	RCHIP	CARY DR	DANIELS DR	END	818	2204
7	RCHIP	LIVE OAK LN	EDGEWOOD RD	HWY 49	2727	6969
7	RCHIP	LIVE OAK WY	END	LILAC LN	673	1795
7	RCHIP	LILAC LN	END	LIVE OAK LN	1098	2795
8	MICRO	GOLD RUSH WY	CLARK TUNNEL RD	BUTLER RD	3319	6638
8	MICRO	PRAIRIE CT	GOLD RUSH WY	END	629	1257
8	MICRO	FRONTIER CT	GOLD RUSH WY	END	320	640
8	RCAPE	BUTLER RD	MP 1.46	MP 1.79	1773	4728
8	RCAPE	BUTLER RD	ENGLISH COLONY RD MP 2.5	MP 1.79	3282	365
8	MICRO	BUTLER CR	BUTLER RD	BUTLER RD	1806	3411
8	RCHIP	GARCIA CT	END	BUTLER RD MP 0.1	540	1238
8	RCAPE	CALLISON RD	CLARK TUNNEL	SISLEY	5116	10232
8	MICRO	CALLISON RD	SISLEY RD	TAYLOR RD	2012	4918
9	RCAPE	COOK RIOLO RD	VINEYARD	BASELINE RD	2970	7920
9	RCAPE	COOK RIOLO RD	PFE RD	GLASER LN	2200	5867
9	MICRO	VINEYARD	COOK RIOLO RD	1300' W OF COOK RIOLO RD	1300	3611

MAPS AND DETAILS

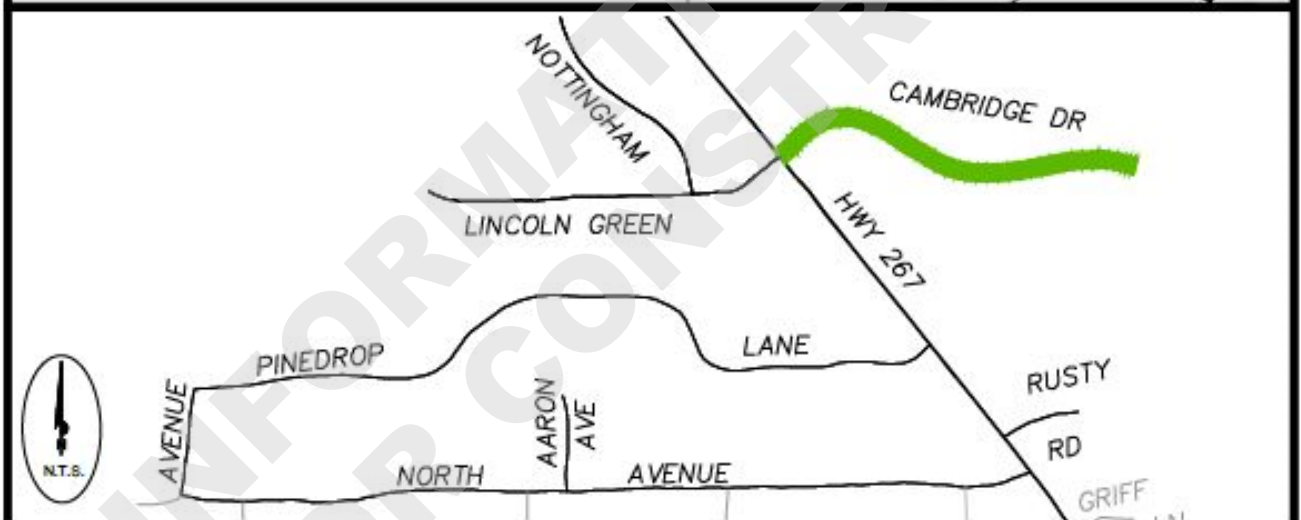
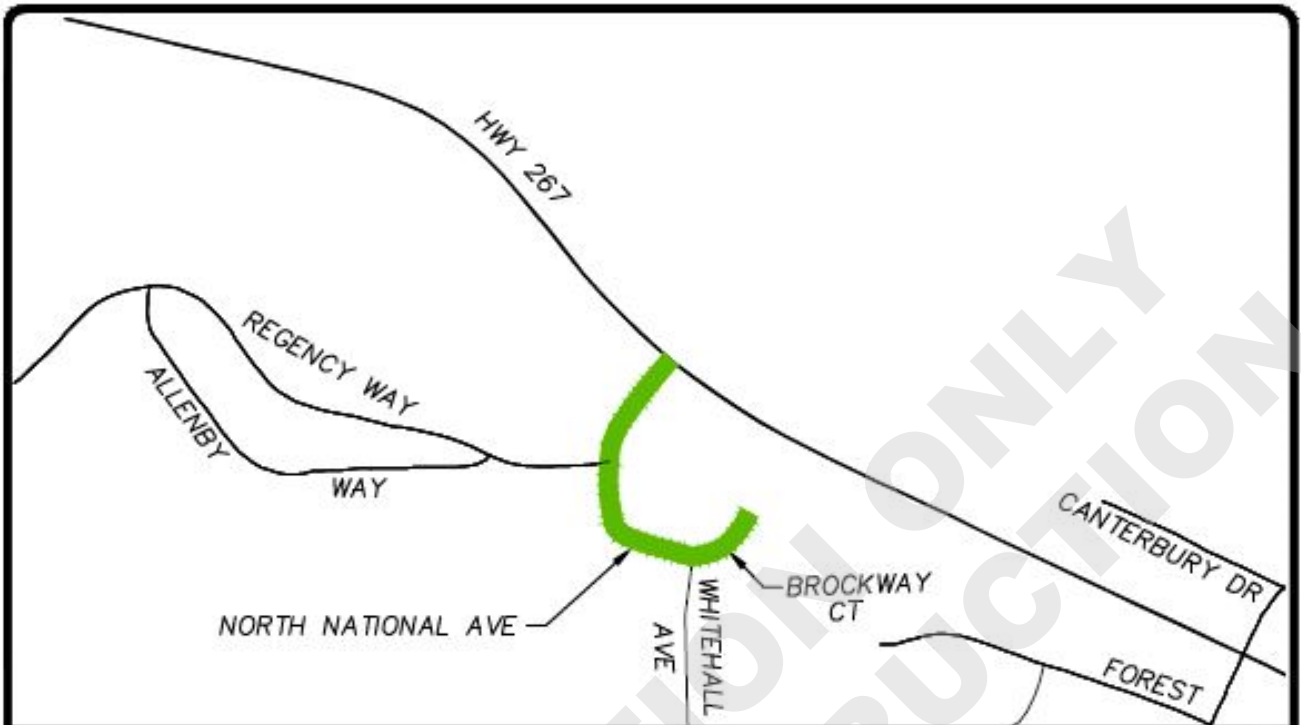
FOR INFORMATION ONLY
NOT FOR CONSTRUCTION

MAP 01

MAP 02



MAP 03



NOTES:

1. APPLY A TACK COAT (PAINT BINDER TO ALL EXISTING AC SURFACES BEFORE PLACEMENT OF THE RHMA OVERLAY
2. PROVIDE TRANSITIONS PER DETAILS A, B, C AND D
3. APPROXIMATE QUANTITY INCLUDES TONNAGE FOR ADDITIONAL AREAS SHOWN ON DETAIL A.
4. PAVEMENT GRINDING REQUIREMENTS ARE SHOWN IN DETAILS A, D AND E.

APPROXIMATE QUANTITIES

1/2" RHMA (PG64-16) DEPTH .20"
LENGTH 1,900' WIDTH 34-39'
TONS 1110 T (SEE NOTE 3)
COLD PLACE AC 810 SY (SEE NOTE 4)
PAVING FABRIC & OIL 6,351 SY
 MANHOLES- 10 UTILITIES- 4

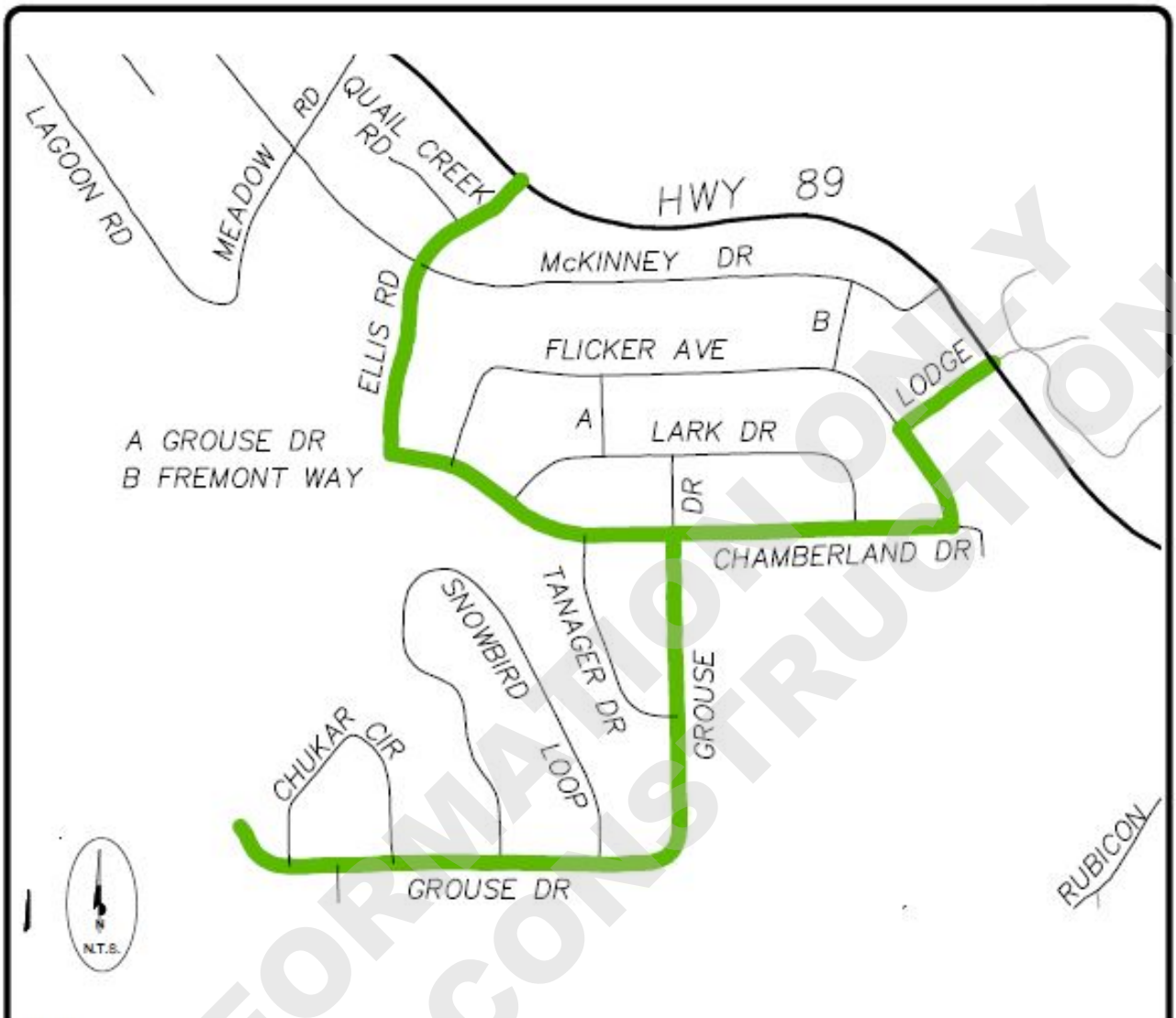
RUBBERIZED HOT MIX ASPHALT OVERLAY

PLACER COUNTY
 CONTRACT NO.
 SUMMER/FALL 2022

KINGSWOOD AREA

PAGE 1 OF 1

MAP 04



NOTES:

1. APPLY A TACK COAT (PAINT BINDER TO ALL EXISTING AC SURFACES BEFORE PLACEMENT OF THE RHMA OVERLAY
2. PROVIDE TRANSITIONS PER DETAILS A, B, C AND D
3. APPROXIMATE QUANTITY INCLUDES TONNAGE FOR ADDITIONAL AREAS SHOWN ON DETAIL A.
4. PAVEMENT GRINDING REQUIREMENTS ARE SHOWN IN DETAILS A, D AND E.

APPROXIMATE QUANTITIES

1/2" RHMA (PG64-16) DEPTH .20'
 LENGTH 7,469' WIDTH 32-38'
 TONS 5200 T. (SEE NOTE 3)
 COLD PLACE AC 1,260 SY (SEE NOTE 4)
 PAVING FABRIC & OIL 36,799 SY

MANHOLES-10 UTILITIES-10

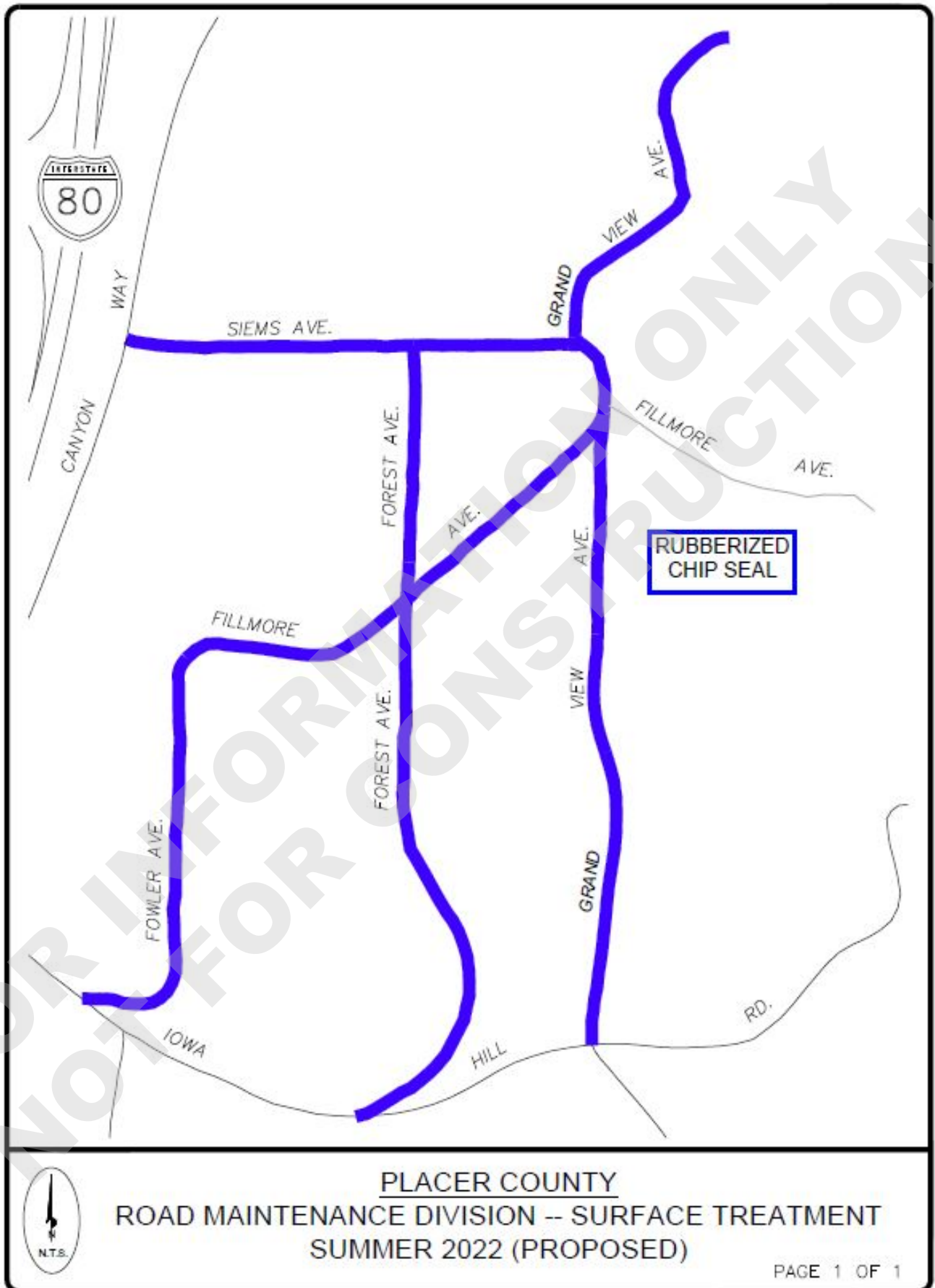
RUBBERIZED HOT MIX ASPHALT OVERLAY

PLACER COUNTY
 CONTRACT NO.
 SUMMER/FALL 2022

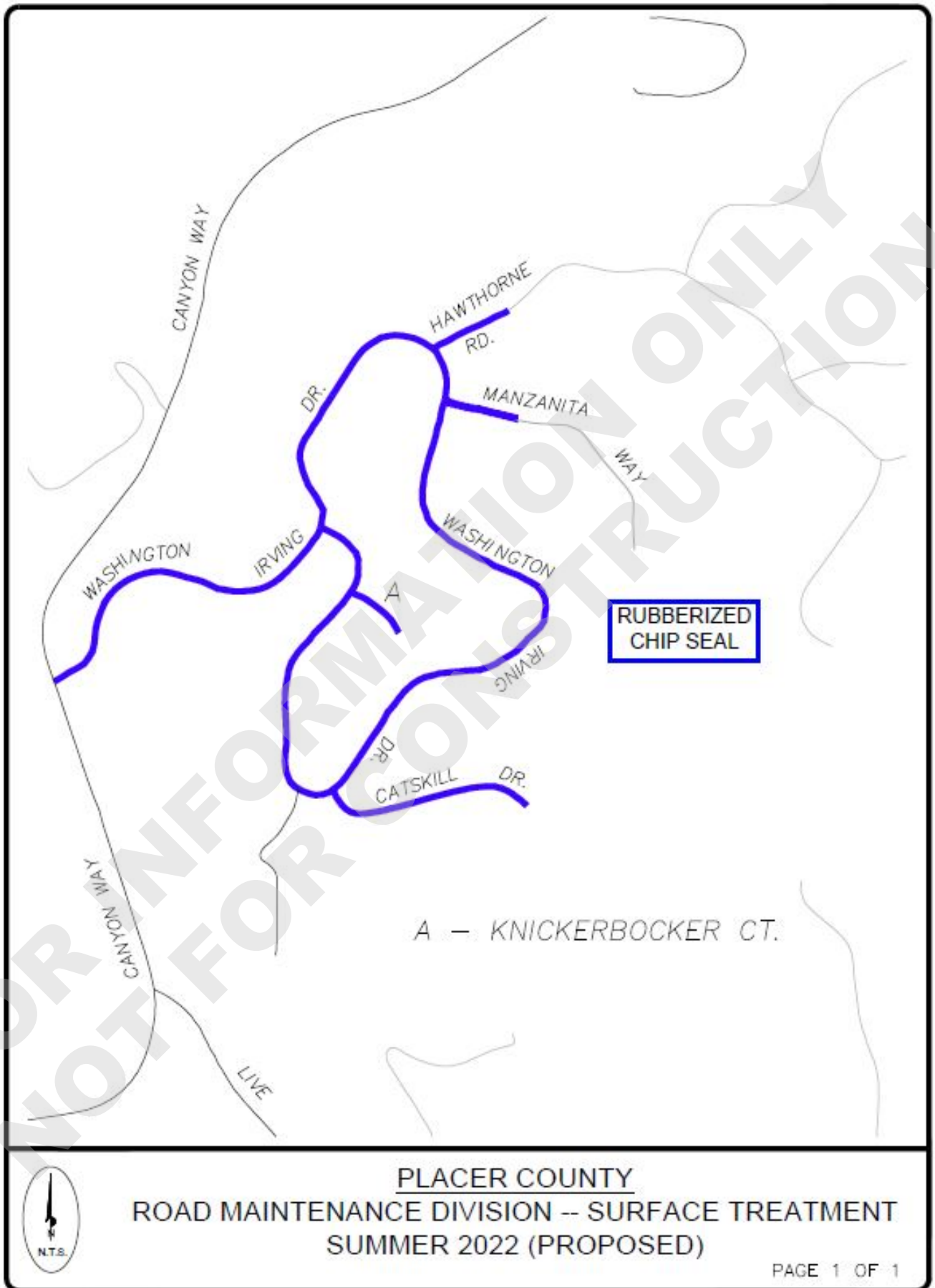
HOMEWOOD AREA

PAGE 1 OF 1

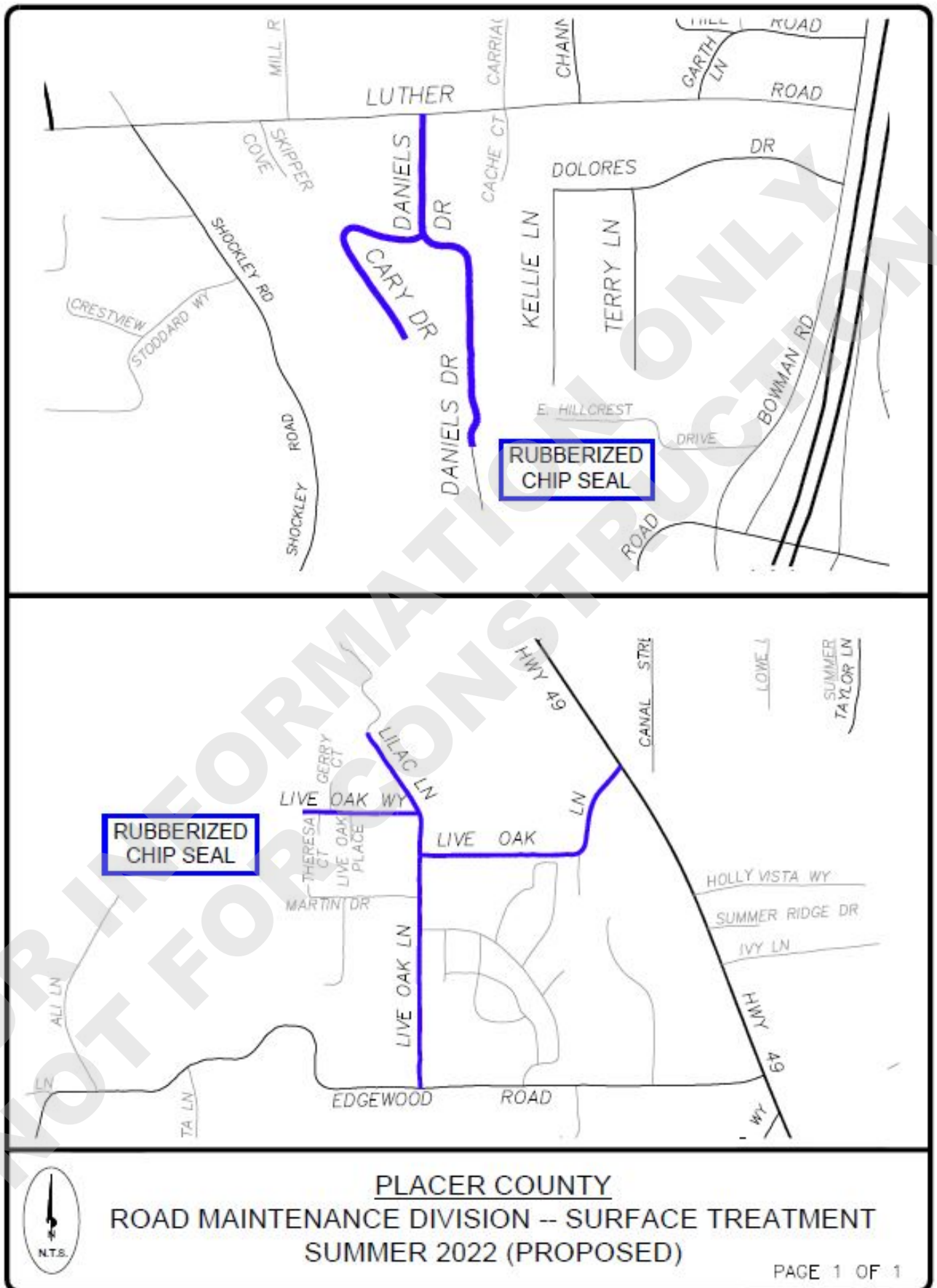
MAP 05



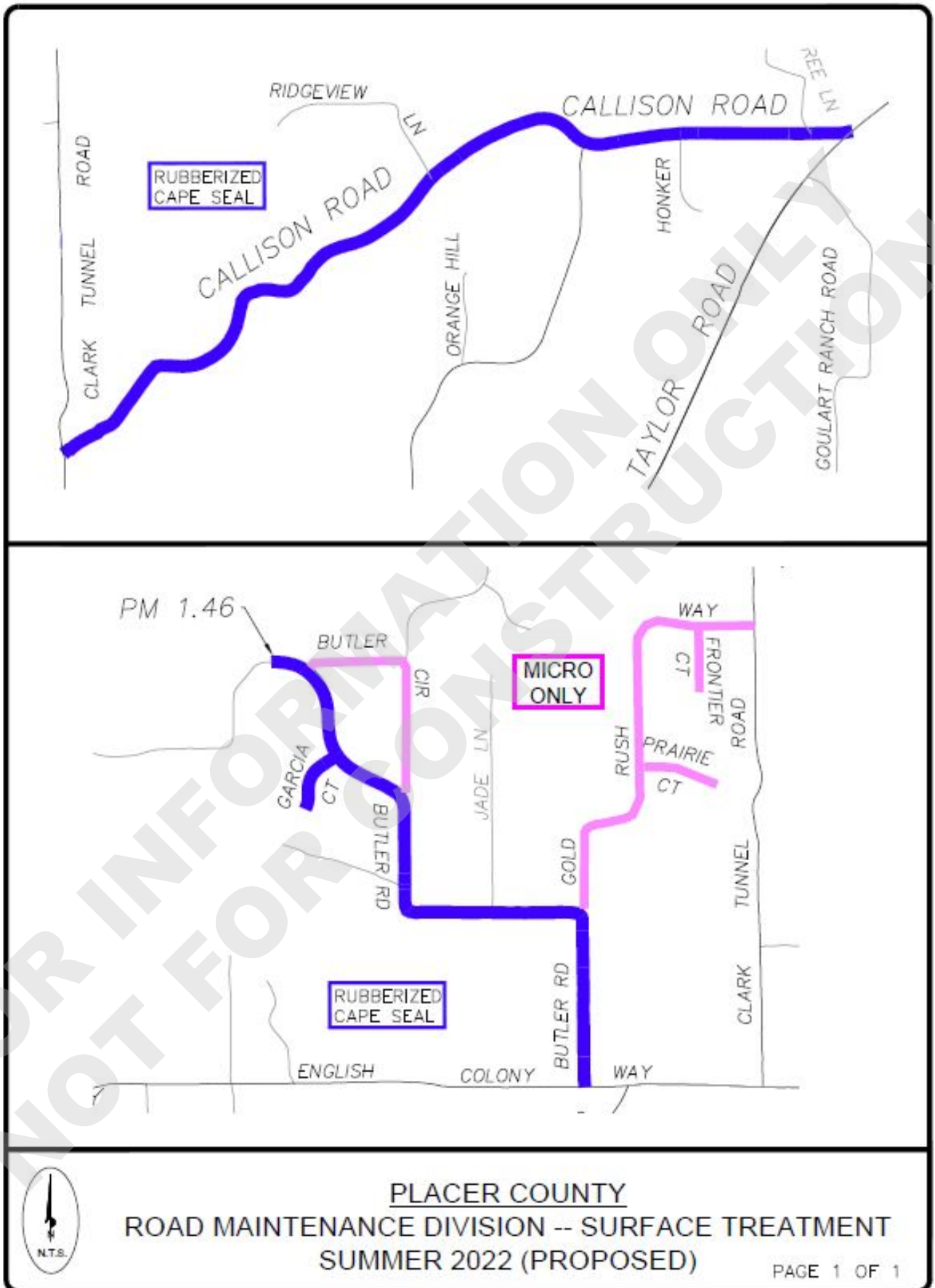
MAP 06



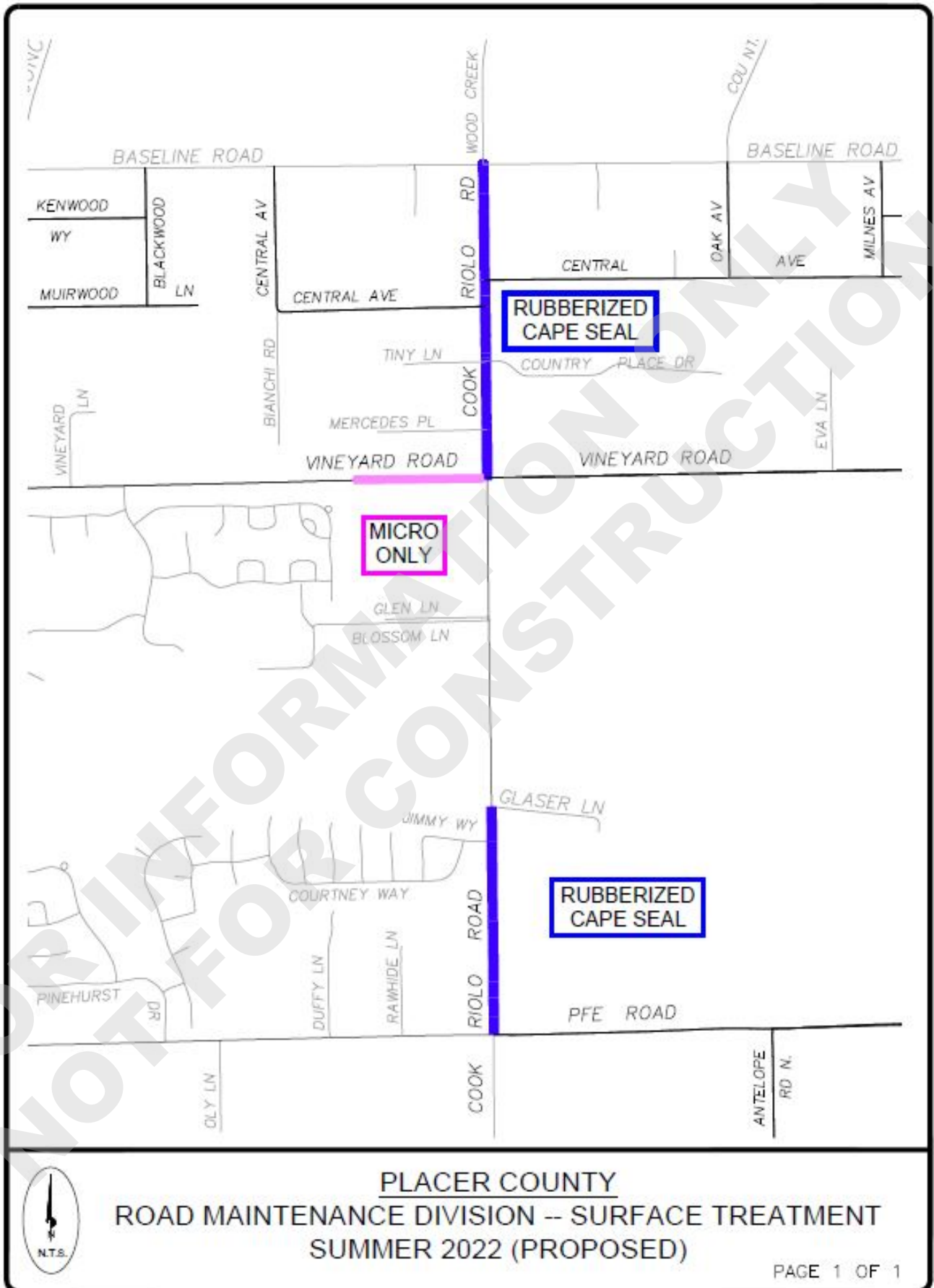
MAP 07



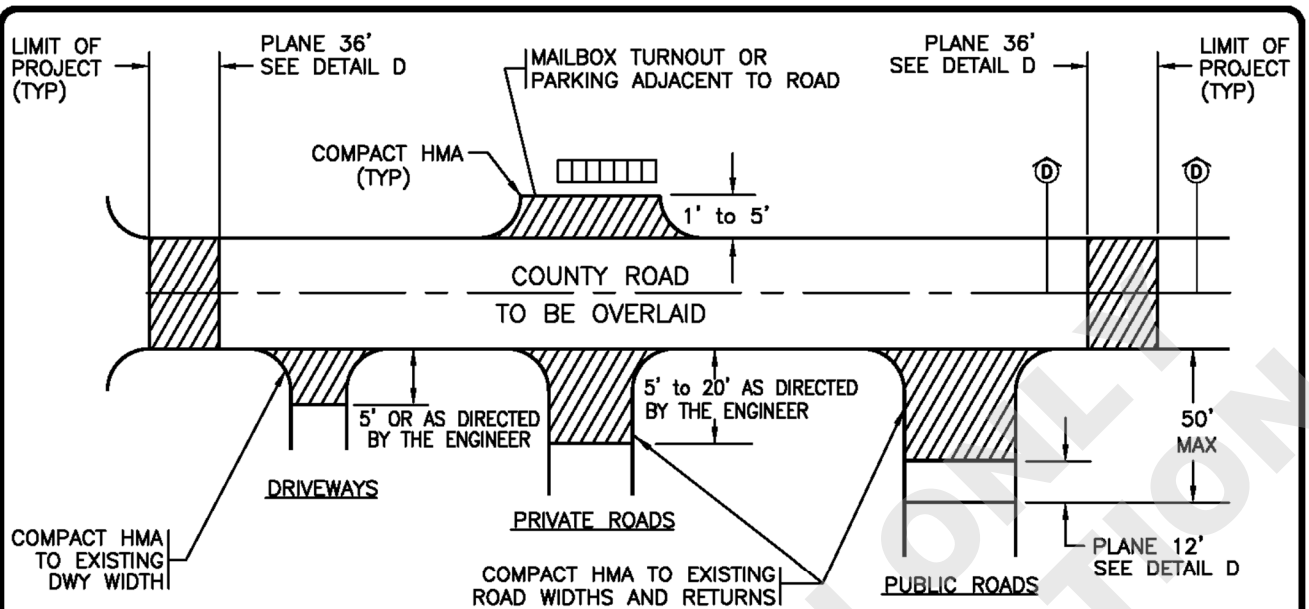
MAP 08



MAP 09



FOR INFORMATION ONLY
NOT FOR CONSTRUCTION

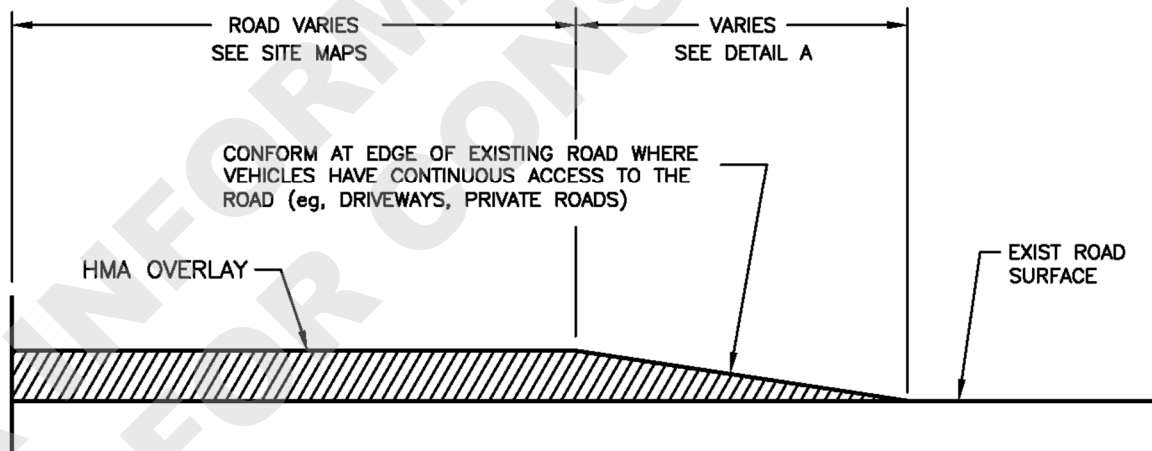


NOTES:

1. THE ABOVE MISC. PAVING SHALL BE DONE AT ALL DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS AND ANY TURNOUT AREAS FOR EXISTING MAILBOXES FRONTING THE OVERLAY SITES – AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND MAINTAINING POSITIVE DRAINAGE SHALL TAKE PRIORITY OVER THE DIMENSIONS GIVEN ABOVE.

DETAIL A

NOT TO SCALE



DETAIL B

NOT TO SCALE

TYPICAL DETAILS

SHEET 1 OF 2

COUNTY OF PLACER
DEPARTMENT OF PUBLIC WORKS

SPECIAL PROVISIONS

CONTRACT NO. TBD
PROJECT NO. TBD

ORGANIZATION

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

DIVISION I GENERAL PROVISIONS
1 GENERAL

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
37000A	TYPE 2 MICROSURFACE	37
37001A	ASPHALT RUBBER CHIP SEAL	37

Replace the last paragraph in section 1-1.05 with:

Whenever in the Standard Specifications, Special Provisions, Notice to Bidders, Proposal, Contract, or other contract documents, the following terms are used, the intent and meaning must be interpreted as follows:

Agency: Placer County

State: Placer County

Department: Placer County

Director: Board of Supervisors, Placer County

Engineer: The Director of Public Work, Placer County, acting either directly or through properly authorized agent or consultants.

District: The Department of Public Works, Placer County

When a submittal is to be made to METS or to OSD, submit the items to the Engineer unless otherwise noted.

References to the Bidder's Exchange means the Placer County Procurement Services

References to the Department's *Certification Program for Suppliers of Asphalt* means Caltrans' *Certification Program for Suppliers of Asphalt*.

References to the Department's *Construction Site Best Management Practices (BMP) Manual* means Caltrans'.

References to the Department's *Construction Site Monitoring Program (CSMP) Guidance Manual* means Caltrans'.

References to the Department's Dispute Resolution Advisor Candidates List refers to Caltrans'.

References to the Department's Division of Construction Website means Caltrans'.

References to the Department's *Falsework Manual* means Caltrans' manual.

References to the Department's *Field Guide for Construction Site Dewatering* means Caltrans'.

References to the Department's *Field Guide to Partnering on Caltrans Construction Projects* means Caltrans'.

References to the Department's Materials Plant Quality Program means Caltrans'.

References to the Department's *Partnering Facilitator Standards and Expectations* means Caltrans'.

References to the Department's *Quality Control Manual for Hot Mix Asphalt Production and Placements* means Caltrans'.

References to the Department's *Soil and Rock Logging, Classification, and Presentation Manual* means Caltrans'.
References to the Department's *Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Plan* means the project SWPPP.

References to the Department's Traffic Operations Website means Caltrans' website.

References to the Department's *Transportation Permits Manual* means the Department's.

References to the Department's *Value Analysis Team Guide* means Caltrans'.

References to Geotechnical Services website means Caltrans' Website.

References to Geotechnical Services means the Engineer.

References to the METS Website means the Caltrans METS Website.

Add to the 1st table in section 1-1.06:

NTP	Notice to Proceed
QA	quality assurance
QC	quality control

Replace the following glossary terms in section 1-1.07B with:

authorized laboratory: Independent testing laboratory (1) not employed or compensated by any subcontractor or subcontractor's affiliate providing other services for the Contract and (2) authorized by Caltrans.

Bid Item List: List of bid items and the associated quantities. The verified Bid Item List is the Bid Item List with verified prices. The Contract Proposal of Low Bidder is the verified Bid Item List. After Contract award, interpret a reference to the Bid Item List as a reference to the verified Bid Item List.

California Test: Caltrans-developed test for determining work quality. For California Tests, go to the METS Web site.

Department: Placer County

Director: Board of Supervisors, Placer County

Engineer: The Director of Public Works, Placer County, acting either directly or through properly authorized agent or consultants.

material source facility audit: Self-audit and a Caltrans audit evaluating a facility's capability to consistently produce materials that comply with Caltrans standards.

plans: Standard plans, revised standard plans, and project plans.

1. standard plans: Drawings standard to Caltrans' construction projects
2. revised standard plans: New or revised standard plans
3. project plans: Drawings specific to the project, including authorized shop drawings

Specifications: Standard specifications, revised standard specifications, special provisions

1. **standard specifications:** Specifications standard to Caltrans' construction projects. These specifications are in a book titled Standard Specifications 2018.
2. **revised standard specifications:** New or revised standard specifications. These specifications are in a section titled Revised Standard Specifications in a book titled REVISIONS TO THE STANDARD SPECIFICATIONS 2018 dated 04-19-19
3. **special provisions:** Specifications specific to the project. These specifications are in a section titled Special Provisions of a book titled Notice to Bidders and Special Provisions dated 9/6/19.

State: Placer County

Structure Design: Placer County Department of Public Works

Add to section 1-1.07B:

Caltrans: California Department of Transportation as defined in St. & Hwy Code section 20 and authorized in St. & Hwy Code section 90; its authorized representatives.

Contract Documents: The Contract Documents consist of: Notice to Bidders, the prevailing rate of per diem wages as determined by the Department of Industrial Relations, the accepted Bid and Bid Schedule, List of Subcontractors, Non-Collusion Affidavit, Bid Security or Bid Bond, this Contract Agreement, Worker's Compensation Certificate, Performance Bond, Payment Bond, Notice of Award, Notice to Proceed, Notice of Completion, Special Provisions, Standard Specifications, Revised Standard Specifications, Labor Surcharge and Equipment Rental Rates, Drawings, Addenda, Change Orders, Work Directives, and any other applicable documents not listed, including modifications incorporated in those documents.

Department of Transportation: The Board of Supervisors of the County of Placer, State of California.

Laboratory: The laboratory authorized by the Engineer to test materials and work involved in the contract.

Public Works Department: Placer County Department of Public Works, 3091 County Center Drive, Suite 220, Auburn, CA 95603.

Office Engineer: Placer County Procurement Services

Project biologist: A USFWS-approved biologist provided by the County

Delete revisions to section 1-1.08 on RSS and replace section 1-1.08 with:

1-1.08 DISTRICT

Not Used

Replace section 1-1.11 with:
1-1.11 WEB SITES, ADDRESSES, AND TELEPHONE NUMBERS
Websites, Addresses, and Telephone Numbers

Reference or agency or department unit	Website	Address	Telephone no.
Authorized Facility Audit List	http://www.dot.ca.gov/hq/esc/Translab/OSM/documents/smdocuments/Internet_auditlisting.pdf	--	--
Authorized Material List	http://www.dot.ca.gov/hq/esc/approved_products_list/	--	--
Authorized Material Source List	http://www.dot.ca.gov/hq/esc/Translab/authorized_material_source_list/	--	--
Authorized Material Systems List	http://www.dot.ca.gov/hq/esc/Translab/authorized_systems_list/	--	--
Authorized Laboratory List	http://www.dot.ca.gov/hq/esc/Translab/authorized_laboratories_list/	--	--
CA Unified Certification Program's list of certified DBEs	http://www.dot.ca.gov/hq/bep/find_certified.htm	--	--
California MUTCD	http://www.dot.ca.gov	--	--
Department		PLACER COUNTY DEPARTMENT OF PUBLIC WORKS 3091 COUNTY CENTER DRIVE, SUITE 220 AUBURN CA 95603	(530) 745-7500
Department of Conservation, Office of Mine Reclamation	http://www.conservation.ca.gov/omr/	--	--
Department of General Services, Office of Small Business and DVBE Services	http://www.dgs.ca.gov/dgs/ProgramsServices/BusServices.aspx	OFFICE OF SMALL BUSINESS AND DVBE SERVICES DEPARTMENT OF GENERAL SERVICES 707 3RD ST WEST SACRAMENTO CA 95605-2811	(800) 559-5529 (916) 375-4940
Department of Industrial Relations	http://www.dir.ca.gov	455 GOLDEN GATE AVE SAN FRANCISCO CA 94102	--
Division of Construction	http://www.dot.ca.gov/hq/construc/	--	--
Geotechnical Services	http://www.dot.ca.gov/hq/esc/geotech	GEOTECHNICAL SERVICES DEPARTMENT OF TRANSPORTATION 5900 FOLSOM BLVD SACRAMENTO CA 95819-4612	(916) 227-7000
METS	http://www.dot.ca.gov/hq/esc/Translab/	PLACER COUNTY DEPARTMENT OF PUBLIC WORKS AND FACILITIES 3091 COUNTY CENTER DRIVE, SUITE 220 AUBURN CA 95603	(530) 745-7500

MPQP	http://www.dot.ca.gov/manuals.htm	--	--
Office Engineer	--	PLACER COUNTY PROCUREMENT SERVICES 2964 RICHARDSON DRIVE AUBURN CA 95603	(530) 745-7500
Procurement Services	http://www.placer.ca.gov/Departments/Admin/Procurement.aspx	PLACER COUNTY PROCUREMENT SERVICES 2964 RICHARDSON DRIVE AUBURN CA 95603	(530) 886-2122
Publication Distribution Unit	--	PUBLICATION UNIT DEPARTMENT OF TRANSPORTATION 1900 ROYAL OAKS DRIVE SACRAMENTO CA 95815-3800	--
Standard Specifications 2015 & Standard Plans 2015	http://www.dot.ca.gov/de/s/oe/construction-contract-standards.html		

Replace section 1-1.12 with:

1-1.12 MISCELLANY

Make checks and bonds payable to "County of Placer".

2 BIDDING

Replace section 2-1.05 with:

2-1.05 CONFLICT OF INTERESTS

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Bid book. Signing the Bid book shall also constitute signature of the Noncollusion Affidavit.

The Contractor, sub-recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of Title 49 CFR (Code of Federal Regulations), Part 26 in the award and administration of US DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

Replace section 2-1.06A with:

2-1.06A General

Standard Specifications and *Standard Plans* may be viewed at the Bidders' Exchange Web site and may be purchased at the Publication Distribution Unit.

The *Bid Book (Book 1)*, *Notice to Bidders* and *Special Provisions (Book 2)*, and *Revisions to the Standard Specifications 2015 (Book 3)*, and project plans may be viewed at the offices of Procurement Services.

<http://www.placer.ca.gov/departments/admin/procurement/openbids>.

Delete section 2-1.27 and replace section 2-1.27 with:

2-1.27 CALIFORNIA COMPANIES

Not Used

Delete section 2-1.31 and replace section 2-1.31 with:

2-1.31 OPT OUT OF PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS

Not Used

Replace section 2-1.33 with:

2-1.33 BID DOCUMENT COMPLETION AND SUBMITTAL

2-1.33A General

Complete the forms in the Bid book.

Use the forms provided by the Department.

Do not fax forms except for the copies of forms with the public works contractor registration number submitted after the time of bid.

Failure to submit the forms and information as specified may result in a nonresponsive bid.

If an agent other than the authorized corporate officer or a partnership member signs the bid, file a Power of Attorney with the Department either before opening bids or with the bid. Otherwise, the bid may be nonresponsive.

2-1.33B Bid Form Submittal Schedules

2-1.33B(1) General

The Bid Book includes forms specific to the contract. Submit your bid in accordance with the *Instructions to Bidders* provided in the Bid Book.

On the *List of Subcontractors*, list each subcontractor to perform work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code § 4100 et seq.), and submit the list with your bid. The subcontractor name, location of business, contractor license number and DIR registration number must be submitted at the time of bid.

On the *List of Subcontractors*, you must submit each subcontracted bid item number and description, corresponding percentage, and subcontract amount *within 24-hours of your bid*.

2-1.33B(2)(b)(ii) Non-Informal-Bid Contract

Bid forms and information on the form that are due after the time of bid may be submitted at the time of bid.

For a non-informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Bid Form Submittal Schedule for a

Non-Informal Bid Non-Federal-Aid Contract without a DBE Goal

Form	Submittal deadline
Bid to the Placer County Procurement Services with the public works contractor registration number	Time of bid
List of Subcontractors	Time of bid
Opt Out of Payment Adjustments for Price Index Fluctuations ^a	Time of bid

List of Proposed Substitutions	Time of Bid
--------------------------------	-------------

^aSubmit only if you choose the option.

^bIf the last day for submitting the bid form falls on a Saturday or holiday, it may be submitted on the next business day with the same effect as if it had been submitted on the day specified.

Replace section 2-1.34 with:

2-1.34 BIDDER'S SECURITY

Submit one of the following forms of bidder's security equal to at least 10 percent of the bid:

1. Cash
2. Cashier's check
3. Certified check
4. Signed bidder's bond by an admitted surety insurer

Submit cash, cashier's check, certified check, or bidder's bond with your bid response before the bid opening time.

If using a bidder's bond, you must use the form in the *Bid* book.

Replace section 2-1.40 with:

2-1.40 BID WITHDRAWAL

For a paper bid:

1. An authorized agent may withdraw a bid before the bid opening date and time by submitting a written bid withdrawal request at the location where the bid was submitted. Withdrawing a bid does not prevent you from submitting a new bid.
2. After the bid opening time, you cannot withdraw a bid.

Delete section 2-1.43 and replace section 2-1.43 with:

2-1.43 BID OPENING

The Agency publicly opens and reads bids at the time and place shown on the *Notice to Bidders*.

3 CONTRACT AWARD AND EXECUTION

Replace section 3-1.02B with:

3-1.02B Tied Bids

After bid verification, the Department breaks a tied bid with a coin toss to be administered by Placer County Procurement Services.

Replace section 3-1.04 with:

3-1.04 CONTRACT AWARD

Submit any bid protest to the Office Engineer. Bid protests are subject to the provisions of Section 10.0 of the Placer County Purchasing Policy Manual, which is available at the County's website:

<http://www.placer.ca.gov/departments/admin/procurement/purchasing%20policy%20manual>.

All bids will be compared on the basis of the Engineer's Estimate of the quantities of work to be done. The right is reserved to reject any and all proposals.

If the Department awards the contract, the award is made to the lowest responsible and responsive bidder within the 90 days after bid opening. The Department may extend the specified award period if the Bidder concerned agrees.

A "Construction Contract DBE Commitment, Exhibit 15-G" form is included in the Bid book to be executed by the successful bidder. The purpose of the form is to collect data required under 49 CFR 26. Even if no DBE participation will be reported, the successful bidder must execute and return the form.

Replace section 3-1.05 with:

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

The successful bidder must furnish 2 bonds:

1. Payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent of the total bid. This is to be provided at the successful bidder's own expense in an amount equal to at least 100 percent (100%) of the contract price. This Payment Bond must be maintained by the successful bidder in full force and effect until the work is accepted by the Department and until all claims for materials and labor are paid, and shall otherwise comply with Civil Code. Sureties on each of said bonds must be satisfactory to the County Attorney.
2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to 100 percent of the total award. This is to be provided at the successful bidder's own expense in an amount equal to at least 100 percent (100%) of the contract price as security for the faithful performance of said agreement within the time prescribed, in a manner satisfactory to the Engineer, and that all materials and workmanship will be free from original or developed defects. This Performance Bond must remain in effect until the end of all warranty periods set forth in the Specifications.

The Department provides bond forms to the successful bidder.

If any bond become insufficient, the Contractor shall renew the bond within ten (10) working days after receiving notice from the Engineer.

If any Surety at any time be unsatisfactory to the County, notice will be given the Contractor to that effect. No further payments shall be deemed due or will be made under said agreement until a new Surety shall qualify and be accepted by the County.

Changes in said agreement of extensions of time, made pursuant to the agreement, shall in no way release the Contractor or Surety from its obligations. Notice of such changes or extensions shall be waived by the Surety.

Replace section 3-1.08 with:

3-1.08 SMALL BUSINESS PARTICIPATION REPORT

Not Used

Replace section 3-1.11:

3-1.11 PAYEE DATA RECORD

Not Used

Replace section 3-1.18 with:

3-1.18 CONTRACT EXECUTION

The successful bidder must sign the *Contract*.

Deliver to Placer County, Department of Public Works, Road Maintenance Division, 3091 County Center Drive, Suite 220, Auburn, CA 95603:

1. Signed *Contract*
2. Contract bonds
3. Documents identified in section 3-1.07
4. For a federal-aid contract, *Caltrans Bidder - DBE Information* form

5. A Form 1273 Certification from every subcontractor

The Office Engineer must receive these documents before the 10th business day after the bidder receives the contract.

The bidder's security may be forfeited for failure to execute the contract within the time specified (Pub Cont Code §§ 10181, 10182, and 10183).

AA

4 SCOPE OF WORK

Add to section 4-1.06C:

This contract is subject to Public Contract Code, Section 7104, and specifically Sub-section (c) that states that, in the event that a dispute arises between the public entity and the contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the contractor's cost of, or time required for, performance of any part of the work, the contractor shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all work to be performed under the contract. The contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

Replace the 2nd paragraph of Section 4-1.13 with:

Do not remove warning, regulatory, or guide signs until directed by Engineer.

AA

5 CONTROL OF WORK

Replace the last paragraph of 5-101 with:

Use the contract administration forms given to you by the Department.

Replace section 5-1.02 with:

5-1.02 CONTRACT COMPONENTS

A component in one Contract part applies as if appearing in each. The parts are complementary and describe and provide for a complete work.

If a discrepancy exists:

1. Governing ranking of Contract parts in descending order is:
 - 1.1. Construction Contract
 - 1.2. Notice to Contractors
 - 1.3. Executed Proposal
 - 1.4. Special provisions
 - 1.5. Project plans
 - 1.6. Caltrans' Traffic Manual
 - 1.3. Revised standard specifications
 - 1.4. Standard specifications
 - 1.5. Revised standard plans
 - 1.6. Standard plans
 - 1.7. Supplemental project information
2. Written numbers and notes on a drawing govern over graphics
3. Detail drawing governs over a general drawing
4. Specific specification governs over a general specification
5. Specification in a section governs over a specification referenced by that section

If a discrepancy is found or confusion arises, submit an RFI.

Replace item 2 in list in the 3rd paragraph of section 5-1.23A with:

2. Project Name

Add section 5-1.20G:

5-1.20G Caltrans Encroachment Permit

The County has applied for an encroachment permit for traffic control operations necessary on highway locations adjacent to the County areas included in this project.

Obtain a Caltrans "double permit" for setting up traffic control on the Caltrans right of way. Become fully informed of all rules, regulations, and conditions that may govern the Contractor's operations in the area and shall conduct the work accordingly. Submit proposed changes to the conditions listed in the permit to the Engineer for transmittal to the Caltrans for approval. You may implement changes after Caltrans gives approval in writing. Keep a copy of the permit on the construction site any time the work is being performed.

Replace section 5-1.26 with:

5-1.26 CONSTRUCTION SURVEYS

5-1.26A General

The Engineer places stakes or marks in general conformance with Chapter 12, "Construction Surveys," of the Caltrans' Surveys Manual. It is the intent of this Section to define the staking services provided by the Engineer, and to set forth your responsibilities respecting the use and maintenance of the stakes and marks.

5-1.26B Notification

Prior to the start of construction, provide the Engineer with a schedule of dates when specific staking services are desired. At least 72 hours (3 working days) in advance of when the stakes are required, submit a staking request in writing to confirm the staking shown on the schedule. This staking request will trigger the actual stakes to be placed in accordance with the request. In addition, this request shall reflect any date changes or other staking needs not shown on the staking schedule. Delays caused by your failure to provide a schedule of dates for staking, or failure to provide at least 72 hours (3 working days) notice for when stakes are required, are considered allowable working days.

5-1.26C Control Stakes

Horizontal and vertical survey control are reference points for all construction work and are set and conspicuously marked with paint or plastic flagging tape. It is your responsibility to inform your employees and subcontractors of their importance and the necessity for their preservation. If a control point cannot be avoided, notify the Engineer in writing at least 48 hours in advance of the date the control point will be disturbed. You must schedule a meeting with the Engineer prior to placement of any control stakes to discuss placement.

5-1.26D Restaking

Stakes or reference marks will be set one time only. Any restaking, for whatever reason, will be performed only when you request it in writing, and will be done at your expense. If any construction stakes or reference points are disturbed, removed, or destroyed, you will be liable for the cost of replacement and the cost will be deducted from your payments. Notify the Engineer at least 48 hours in advance of the date when restaking is required. Staking costs are \$300 per hour for a two man staking crew during regular working hours and \$450 per hour for a two man staking crew if staking is done outside of normal work hours plus mileage to and from the site, to replace damaged or destroyed stakes. A minimum of 3 hours for the two man staking crew will be charged per visit. Prevailing wages also apply.

5-1.26E Checking Service

Notify the Engineer should occasion arise where the validity of a stake is questionable, either as to its location/offset marks, or as to its elevation or cut/fill marks. The Engineer will check the stake or stakes in question. It is your responsibility to examine the stakes before commencing work. Any stakes found to be in error shall be reset. You will not be charged for this service; and it is understood that the County will not be charged for any standby or "Down" time as a result of such checking and/or resetting procedure.

5-1.26F Staking Service

The Engineer will set only one (1) set of construction stakes at the County's expense. Any restaking necessary will be at your sole expense and subject to inspection and approval by the Engineer prior to continuing finish grading. You are fully responsible for conformance and agreement of the work with lines and elevations as shown on the contract plans.

Stakes or marks will be provided by the County to establish the lines and grades required for the completion of the work specified in the standard specifications, on the plans, and in these special provisions.

1. *Clearing Stakes:* Clearing stakes will be set only when necessary, as determined by the Engineer to protect and preserve desirable natural features.
2. *Slope Stakes:* No stakes will be set at the catch points. A reference point to the catch point and a marker stake will be set with a longitudinal spacing of 100 feet in areas of light grading. Spacing will be reduced to 50 feet in areas of heavy grading (cuts or fills in excess of 10 feet) or where necessary to provide inter-visibility. Line points will be provided only when necessary, as determined by the County.
3. *Intermediate Slope Stakes:* Intermediate slope stakes will be set only when necessary, as determined by the County, to control fill slope struts, cut-slope benches, or slopes in very heavy grading (cuts or fills in excess of 30 feet).
4. *Fences Stakes:* Reference stakes shall be set at angle points, begins and ends of curves, every 200 feet on tangents, every 50 feet on curves with radii of 1000 feet or more, and every 25 feet on curves with radii less than 1000 feet.
5. *Final Grade Stakes:* Final grade stakes are set only once and control all elements of the structural section (grading plane, subbase, base, and pavement). A reference point at a constant horizontal offset, with a cut/fill to the edge of pavement (EP) will be set with a longitudinal spacing of 25 feet. Two longitudinal rows of stakes will be provided per roadbed. Staking for finished grading will be performed for ramps, bridge approaches, streets, and detours, if required. Where curb and gutter is the controlling shoulder feature, finish grade stakes will not be set, but will be replaced by curb stakes.
6. *Curb Stakes:* Reference points will be set, with a marker stake showing cuts/fills to flowline, at a constant horizontal offset distance from the flowline of curb with a longitudinal spacing of 50 feet. Spacing will be reduced to 25 feet when the grade is less than 0.3 percent or the curvature radius is less than 1000 feet.
7. *Drainage Stakes:* A reference stake with a marker stake and a line point with a marker will be set for the following:
 - 7.1. Ends of facilities
 - 7.2. Grade breaks
 - 7.3. Alignment breaks
 - 7.4. Junctions
 - 7.5. Inlets and similar facilities
 - 7.6. Risers and similar facilities

Where the plans show control elevations (invert elevations), reference stakes will show elevations, not cut/fills. Intermediate stakes will be set every 200 feet on long straight runs. When necessary, as determined by the Engineer, additional intermediate reference stakes will be set for staged construction and to provide inter-visibility between drainage stakes.

8. *Bridge Stakes:* One set of stakes will be provided for bridge abutments, bents and wing walls for each stage as follows: two reference points, each with a marker stake, that provide elevation, a distance, and line reference for the controlling lines or layout lines. A third stake for "line only" is set when required by construction conditions, as determined by the County. One temporary bench mark will be set for your use.

One set of marks will be provided for "edge of deck" layout to offset you request.

Marks will be set at each abutment and pier/bent. Additional marks will be set at as longitudinal spacing of no more than 25 feet in tangents and 15 feet in curves.

Soffit grades will be provided twice; once for initial falsework adjustment and once as a final grade check.

Approach slabs will be established at limits of slabs, with one set of stakes to offset you request.

9. *Abutment Fill Stakes:* A reference point, marker stake, and a line point will be set for the following locations:

- 9.1. Beginnings and ends of hinge point taper transitions.
- 9.2. Last regular side slopes before the conic transitions.
- 9.3. Regular intervals along the conic transitions.
- 9.4. First regular end slopes after the conic transitions, normal to the abutment.
- 9.5. Along the end slope, normal to abutment.

10. *Waterlines and Sewer lines:* Stakes will be set for proposed waterlines and valves. Cuts to flowline of pipe shall be given. Line stakes shall be given for angle points and valves.

11. *Contour Grading:* Contour grading shall be staked on a grid, with maximum spacing of 50 foot intervals.

12. *Retaining Walls:* Wall stakes will be set to reference retaining wall lay-out-lines (LOL). Stakes will be set at the beginning and end of each wall and at LOL angle points, footing steps and changes in wall heights. Longitudinal spacing shall not exceed 50 feet.

13. *Other Stakes:* Other improvements such as permanent delineation, signs, lighting, signals, traffic detector loops, guardrails, and similar facilities, will not be staked where they are controlled by adjacent construction staking or adjacent facilities. Where staking is necessary, as determined by the County, it shall be performed by the County.

Additional staking that you request that is not specified here shall be at your expense.

You will be responsible for your own construction layout from the stakes provided and in the areas not included above, such as revegetation, rough grading, etc.

Replace section 5-1.27A with:

5-1.27A General

Maintain records showing the name and business address of each first-tier subcontractor.

Upon completion of the contract, a summary of these records shall be certified correct by the Contractor or the Contractor's authorized representative, and shall be furnished to the Engineer.

Replace section 5-1.27E with:

5-1.27E Change Order Bills

Maintain separate records for change order work costs.

Submit change order bills to the Engineer.

Replace the 2nd paragraph of section 5-1.32 with:

If sufficient area is not available within the contract limits, you are responsible for securing, at your own expense, areas required for plant sites, storage of equipment for materials or for other purposes. Obtain encroachment permit prior to occupying County-owned parcels outside the contract limits. Obtain the permits from Community Development Resource Center, 3091 County Center Drive, Auburn, California, 95603.

Replace the 9th paragraph of section 5-1.43E(1)(a) with:

You, the Department, and the DRA or DRB must complete and comply with the *Dispute Resolution Advisor Agreement* or Dispute Resolution Board Agreement. For these agreement forms, go to the Caltrans Division of Construction Web site.

Replace the 3rd sub-item in the 1st item in the list of paragraph 1 of section 5-1.43E(2)(b) with:

1.3. Have served on at least 3 dispute resolution boards on a Caltrans contract as a member or at least 2 dispute resolution boards on a Caltrans contract as the chairman

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6 CONTROL OF MATERIALS

Replace section 6-1.05 with:

6-1.05 SPECIFIC BRAND OR TRADE NAME AND SUBSTITUTION

Required Listing of Proposed Products "OR EQUALS" with Bid Proposal

On the sheet provided in the Bid Book, to be submitted as part of the proposal, the bidder shall list each proposed substitution of an "equal" product. The bidder shall identify the proposed substitution by the section of the specifications that specifies the product, the name of the product proposed to be substituted out, and the name and manufacturer of the product proposed to be substituted. Prior to the award of the Contract and upon the request of the Engineer, the bidder shall submit the written request for substitution within three (3) business days. The request shall be accompanied by evidence satisfactory to the Engineer that the materials and products proposed for use are equal to or better than the materials and products specified or detailed on the plans. The burden of proof as to the quality and suitability of substitutions shall be upon the bidder. Failure to submit the information as requested by the Engineer shall be deemed a voluntary withdrawal of the proposed substitution.

No requests for any substitution shall be allowed unless listed on the sheet provided. No requests for substitution shall be allowed after the opening of the bid. Requests for substitution shall be reviewed and considered by the Engineer promptly after the award of the contract to the lowest responsible Bidder. In its sole discretion, the Engineer may request additional information about the proposed substitution.

The decision by the Engineer as to whether a proposed substitution is an "Equal" product shall be made by the Engineer based upon the information submitted and will be final.

The Engineer will be the sole judge as to whether a proposed substitution is an "Equal" product. The Engineer's decision will be made based upon the information submitted and will be final.

Replace the 2nd paragraph of section 6-2.01B with:

An audit authorized by Caltrans not more than 3 years before completion of the fabrication process is acceptable if the Department determines the audit was for the same type of work to be performed.

Delete the 4th paragraph and table of section 6-2.01E.

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7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace the 1st item in the list of the 2nd paragraph of section 7-1.02K(2) with:

1. At the Department's Office

Replace section 7-1.02K(3) with:

7-1.02K(3) Certified Payroll Records (Labor Code § 1776)

Keep accurate payroll records.

Submit a copy of your certified payroll records, weekly, including those of subcontractors. Include:

1. Each employee's:
 - 1.1. Full name
 - 1.2. Address
 - 1.3. Social security number
 - 1.4. Work classification
 - 1.5. Straight time and overtime hours worked each day and week
 - 1.6. Actual wages paid for each day to each:
 - 1.6.1. Journeyman
 - 1.6.2. Apprentice
 - 1.6.3. Worker
 - 1.6.4. Other employee you employ for the work
 - 1.7. Pay rate
 - 1.8. Itemized deductions made
 - 1.9. Check number issued
2. Apprentices and the apprentice-to-journeyman ratio

Each certified payroll record must include a Statement of Compliance form signed under penalty of perjury that declares:

1. Information contained in the payroll record is true, correct, and complete
2. Employer has complied with the requirements of sections 1771, 1811, and 1815 for any work performed by his or her employees on the public works project
3. Wage rates paid are at least those required by the Contract

The Department allows the use of a form with identical wording as the Statement of Compliance form provided by the Department.

Submitted certified payrolls for hauling and delivering ready-mixed concrete must be accompanied by a written time record. The time record must include:

1. Truck driver's full name and address
2. Name and address of the factory or batching plant
3. Time the concrete was loaded at the factory or batching plant
4. Time the truck returned to the factory or batching plant
5. Truck driver's signature certifying under penalty of perjury that the information contained in this written time record is true and correct

Make certified payroll records available for inspection at all reasonable hours at your main office on the following basis:

1. Upon the employee's request or upon request of the employee's authorized representative, make available for inspection a certified copy of the employee's payroll record.
2. Refer the public's requests for certified payroll records to the Department. Upon the public's request, the Department makes available for inspection or furnishes copies of your certified payroll records. Do not give the public access to the records at your main office.

Make all payroll records available for inspection and copying or furnish a copy upon request of a representative of the:

1. Department
2. Division of Labor Standards Enforcement of the Department of Industrial Relations
3. Division of Apprenticeship Standards of the Department of Industrial Relations

Furnish the Department the location of the records. Include the street address, city, and county. Furnish the Department a notification of a location and address change within 5 business days of the change.

Comply with a request for the records within 10 days after you receive a written request. If you do not comply within this period, the Department withholds from progress payments a \$100 penalty for each day or part of a day for each worker until you comply. You are not assessed this penalty for a subcontractor's failure to comply with Labor Code § 1776.

The Department withholds from progress payments for delinquent or inadequate records (Labor Code § 1771.5). If you have not submitted an adequate record by the month's 15th day for the period ending on or before the 1st of that month, the Department withholds up to 10 percent of the monthly progress estimate, exclusive of mobilization. The Department does not withhold more than \$10,000 or less than \$1,000.

Replace *Reserved* in section 7-1.02M(2) with:

7-1.02M(2) Fire Prevention

Cooperate with local fire prevention authorities in eliminating hazardous fire conditions.

Obtain the phone numbers of the nearest fire suppression agency and California Department of Forestry and Fire Protection (Cal Fire) unit headquarters. Submit these phone numbers to the Engineer before the start of job site activities.

Immediately report to the nearest fire suppression agency fires occurring within the project limits.

Prevent project personnel from setting open fires that are not part of the work.

Prevent the escape of and extinguish fires caused directly or indirectly by job site activities

Locate flammable materials at least 50 feet away from equipment service, parking, and gas and oil storage areas. Each small mobile or stationary engine site must be cleared of flammable material for a radius of at least 15 feet from the engine.

Furnish the following fire tools:

1. 1 shovel and 1 fully charged fire extinguisher UL rated at 4 B:C or more on each truck, personnel vehicle, tractor, grader, or other heavy equipment.
2. 1 shovel and 1 backpack 5-gallon water-filled tank with pump for each welder.
3. 1 shovel or 1 chemical pressurized fire extinguisher, fully charged, for each gasoline-powered tool, including chain saws, soil augers, and rock drills. The fire tools must always be within 25 feet from the point of operation of the power tool. Each fire extinguisher must be of the type and size required by the Pub Res Code § 4431 and 14 CA Code of Regs § 1234. Each shovel must be size O or larger and at least 46 inches long.

Replace section 7-1.03 with:

7-1.03 PUBLIC CONVENIENCE

Compliance with section 7-1.03 does not relieve you of your responsibility for public safety.

Coordinate bridge closures and traffic control with the local farms and ranches to allow them to preposition agricultural equipment prior to road closures or lane reductions. Avoid undue delay in construction activities to reduce the public's exposure to construction.

Maintain convenient access to driveways, houses, and buildings. When an abutting property owner's access across the right-of-way line is to be eliminated or replaced under the Contract, the existing access must not be closed until the replacement access facility is usable. Construct temporary approaches to a crossing and an intersecting highway.

Apply dust palliative for the prevention or alleviation of dust nuisance.

If a height differential of more than 0.04 foot is created by construction activities at a joint transverse to the direction of traffic on the traveled way or a shoulder subject to public traffic, construct a temporary taper at the joint with a slope complying with the requirements shown in the following table:

Temporary Tapers

Height differential (foot)	Slope (horizontal:vertical)	
	Taper use of 14 days or less	Taper use of more than 14 days
Greater than 0.08	100:1 or flatter	200:1 or flatter
0.04–0.08	70:1 or flatter	70:1 or flatter

For a taper on existing asphalt concrete or concrete pavement, construct the taper with minor HMA under section 39-7.02.

Grind existing surfaces to accommodate a minimum taper thickness of 0.10 foot under either of the following conditions:

1. HMA material such as rubberized HMA, polymer-modified bonded wearing course, or open-graded friction course is unsuitable for raking to a maximum 0.02 foot thickness at the edge
2. Taper will be in place for more than 14 days

The completed surface of the taper must be uniform and must not vary more than 0.02 foot from the lower edge of a 12-foot straightedge when placed on its surface parallel and perpendicular to traffic.

If authorized, you may use alternative materials or methods to construct the required taper.

Install signs, lights, flares, Type K temporary railing, barricades and other facilities to direct traffic. Provide flaggers whenever necessary to direct the movement of the public through or around the work. Flagging must comply with section 12-1. The department pays for this under Traffic Control System.

You are required to pay for the cost of replacing or repairing all facilities installed under change order work for the convenience, direction, or warning of the public that are lost while in your custody or are damaged by your operations to such an extent as to require replacement or repair.

The Engineer may order or consent to your request to open a completed section of surfacing, pavement, or structure roadway surface for public use. You will not be compensated for any delay to your construction activities caused by the public. This does not relieve you from any other contractual responsibility.

The contractor will establish communication 1 week prior to construction activities with adjacent farms to coordinate contractors schedule and planned farming activities of property owner.

None of the provisions specified herein shall be construed to restrict or prohibit, at any time, the prosecution of items of work which will not interfere with the use of existing streets.

Replace section 7-1.04 with:

7-1.04 PUBLIC SAFETY

Notify the Sheriff's Offices, Fire Departments, Schools, Ambulance Services, California Highway Patrol, U.S. Post Office and the Engineer seven (7) days prior to any road closure.

You are responsible to provide for public safety.

Do not construct a temporary facility that interferes with the safe passage of traffic.

Control dust resulting from the work, inside and outside the right-of-way. Wind erosion of soil or dust shall be controlled during construction by periodic watering of the soil and rock exposed by the construction process. Periodic watering shall be conducted routinely as needed to prevent raising dust from construction via vehicle usage and/or wind erosion of newly created unprotected surfaces. This action shall be included in the construction contract.

Move workers, equipment, and materials without endangering traffic.

Whenever your operations create a condition hazardous to the public, furnish, erect and maintain those fences, temporary railing, barricades, lights, signs, and other devices and take any other necessary protective measures to prevent damage or injury to the public.

Any fences, temporary railing, barricades, lights, signs, or other devices furnished, erected and maintained by you are in addition to those for which payment is provided elsewhere in the specifications.

Provide flaggers whenever necessary to ensure that the public is given safe guidance through the work zone. Flagging must comply with section 12-1. At locations where traffic is being routed through construction under one-way controls, move your equipment in compliance with the one-way controls unless otherwise ordered.

Use of signs, lights, flags, or other protective devices must comply with the *California MUTCD* and any directions of the Engineer. Signs, lights, flags or other protective devices must not obscure the visibility of, nor conflict in intent, meaning, and function of either existing signs, lights and traffic control devices, or any construction area signs.

Keep existing traffic signals and highway lighting in operation. Other forces within the Department will perform routine maintenance of these facilities during the work.

Cover signs that direct traffic to a closed area.

Install temporary illumination in a manner which the illumination and the illumination equipment does not interfere with public safety. The installation of general roadway illumination does not relieve you from furnishing and maintaining any protective devices.

Equipment must enter and leave the highway via existing ramps and crossovers and must move in the direction of traffic. All movements of workmen and construction equipment on or across lanes open to traffic must be performed in a manner that do not endanger the public. Your vehicles or other mobile equipment leaving an open traffic lane to enter the construction area must slow down gradually in advance of the location of the turnoff to give the traffic following an opportunity to slow down. When leaving a work area and entering a roadway carrying traffic, your vehicles and equipment must yield to traffic.

Immediately remove hauling spillage from a roadway lane or shoulder open to traffic. When hauling on roadways, trim loads and remove material from shelf areas to minimize spillage.

Notify the Engineer not less than 25 days and not more than 125 days before the anticipated start of an activity that will change the vertical or horizontal clearance available to traffic, including shoulders.

If vertical clearance is temporarily reduced to 15.5 feet or less, place low clearance warning signs in compliance with the *California MUTCD* and any directions of the Engineer. Signs must comply with the dimensions, color, and legend requirements of the *California MUTCD* and section 12-3.11 except that the signs must have black letters and numbers on an orange retroreflective background. W12-2P signs must be illuminated so that the signs are clearly visible.

Do not store vehicles, material, or equipment in a way that:

1. Creates a hazard to the public
2. Obstructs traffic control devices

Do not install or place temporary facilities used to perform the work which interfere with the free and safe passage of traffic.

Temporary facilities that could be a hazard to public safety if improperly designed must comply with design requirements described in the Contract for those facilities or, if none are described, with standard design criteria or codes appropriate for the facility involved. Submit shop drawings and design calculations for the temporary facilities and show the standard design criteria or codes used. Shop drawings and supplemental calculations must be sealed and signed by an engineer who is registered as a civil engineer in the State.

If you appear to be neglectful or negligent in furnishing warning devices and taking protective measures, the Engineer may direct your attention to the existence of a hazard. You must furnish and install the necessary warning devices. If the Engineer points out the inadequacy of warning devices and protective measures, that action on the part of the Engineer does not relieve you from your responsibility for public safety or abrogate your obligation to furnish and pay for these devices and measures.

Install Type K temporary railing or other authorized protective systems under any of the following conditions:

1. Excavations: Where the near edge of the excavation is within 15 feet from the edge of an open traffic lane
2. Temporarily unprotected permanent obstacles: When the work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing, and you elect to install the obstacle before installing the protective system; or you, for your convenience and as authorized, remove a portion of an existing protective railing at an obstacle and do not replace such railing completely the same day

3. Storage areas: When material or equipment is stored within 15 feet of the edge of an open traffic lane and the storage is not otherwise prohibited by the Contract
4. Height differentials: When construction operations create a height differential greater than 0.15 feet within 15 feet of the edge of traffic lane

Installation of Type K temporary railing is not required if an excavation within 15 feet from the edge of an open traffic lane is protected by any of the following:

1. Steel plate or concrete covers of adequate thickness to prevent accidental entry by traffic or the public
2. Side slope where the downhill slope is 4:1 (horizontal:vertical) or less unless a naturally occurring condition
3. Barrier or railing

Offset the approach end of Type K temporary railing a minimum of 15 feet from the edge of an open traffic lane. Install the temporary railing on a skew toward the edge of the traffic lane of not more than 1 foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15-foot minimum offset cannot be achieved, the temporary railing must be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules must be installed at the approach end of the temporary railing.

Secure Type K temporary railing in place before starting work for which the temporary railing is required.

Where 2 or more lanes in the same direction are adjacent to the area where the work is being performed, including shoulders, the adjacent lane must be closed under any of the following conditions:

1. Work is off the traveled way but within 6 feet of the edge of the traveled way, and the approach speed is greater than 45 miles per hour
2. Work is off the traveled way but within 3 feet of the edge of the traveled way, and the approach speed is less than 45 miles per hour

Closure of the adjacent traffic lane is not required when performing any of the following:

1. Working behind a barrier
2. Paving, grinding, or grooving
3. Installing, maintaining, or removing traffic control devices except Type K temporary railing

Do not reduce an open traffic lane width to less than 10 feet. When traffic cones or delineators are used for temporary edge delineation, the side of the base of the cones or delineators nearest to traffic is considered the edge of the traveled way.

If a traffic lane is closed with channelizers for excavation work, move the devices to the adjacent edge of the traveled way when not excavating. Space the devices as specified for the lane closure.

Do not move or temporarily suspend anything over a traffic lane open to the public unless the public is protected.

Replace section 7-1.06 with:

7-1.06 INSURANCE

7-1.06A General

CONTRACTOR must file with COUNTY concurrently herewith a Certificate of Insurance, in companies acceptable to COUNTY, with a Best's Rating of no less than A-:VII showing.

7-1.06B Worker's Compensation and Employers Liability Insurance

Worker's Compensation Insurance shall be provided as required by any applicable law or regulation. Employer's liability insurance shall be provided in amounts not less than one million dollars (\$1,000,000) each accident for bodily injury by accident, one million dollars (\$1,000,000) policy limit for bodily injury by disease, and one million dollars (\$1,000,000) each employee for bodily injury by disease.

If there is an exposure of injury to PROVIDER'S employees under the U.S. Longshoremen's and Harbor Worker's Compensation Act, the Jones Act, or under laws, regulations, or statutes applicable to maritime employees, coverage shall be included for such injuries or claims.

Each Workers' Compensation policy shall be endorsed with the following specific language:

Cancellation Notice - "This policy shall not be changed without first giving thirty (30) days prior written notice and ten (10) days prior written notice of cancellation for non-payment of premium to the County of Placer."

Waiver of Subrogation - The workers' compensation policy shall be endorsed to state that the workers' compensation carrier waives its right of subrogation against the County, its officers, directors, officials, employees, agents or volunteers, which might arise by reason of payment under such policy in connection with performance under this agreement by the CONTRACTOR.

CONTRACTOR shall require all SUBCONTRACTORS to maintain adequate Workers' Compensation insurance. Certificates of Workers' Compensation shall be filed forthwith with the County upon demand.

7-1.06C General Liability Insurance

7-1.06C(1) General

Comprehensive General Liability or Commercial General Liability insurance covering all operations by or on behalf of CONTRACTOR, providing insurance for bodily injury liability and property damage liability for the limits of liability indicated below and including coverage for:

- (1) Premises and operations;
- (2) Products and completed operations;
- (3) Contractual liability insuring the obligations assumed by PROVIDER in this Agreement;
- (4) Broad form property damage (including completed operations);
- (5) Explosion, collapse, and underground hazards;
- (6) Personal injury liability; and

Except with respect to bodily injury and property damage included within the products and completed operations hazards, the aggregate limits, where applicable, shall apply separately to CONTRACTOR'S work under the Contract.

One of the following forms is required:

- (1) Comprehensive General Liability;
- (2) Commercial General Liability (Occurrence); or
- (3) Commercial General Liability (Claims Made).

If CONTRACTOR carries a Comprehensive General Liability policy, the limits of liability shall not be less than a Combined Single Limit for bodily injury, property damage, and Personal Injury Liability of:

1. Two million dollars (\$2,000,000) each occurrence
2. Four million dollars (\$4,000,000) aggregate

If CONTRACTOR carries a Commercial General Liability (Occurrence) policy:

1. The limits of liability shall not be less than:
 - 1.1. Two million dollars (\$2,000,000) each occurrence (combined single limit for bodily injury and property damage)
 - 1.2. Two million dollars (\$2,000,000) for Personal Injury Liability
 - 1.3. Two million dollars (\$2,000,000) for Products-Completed Operations
 - 1.4. Four million dollars (\$4,000,000) General Aggregate
2. If the policy does not have an endorsement providing that the General Aggregate Limit applies separately, or if defense costs are included in the aggregate limits, then the required aggregate limits shall be four million dollars (\$4,000,000)

Special Claims Made Policy Form Provisions:

CONTRACTOR shall not provide a Commercial General Liability (Claims Made) policy without the express prior written consent of COUNTY, which consent, if given, shall be subject to the following conditions

1. The limits of liability shall not be less than:
 - 1.1. Two million dollars (\$2,000,000) each occurrence (combined single limit for bodily injury and property damage)
 - 1.2. Two million dollars (\$2,000,000) for Personal Injury Liability
 - 1.3. Four million dollars (\$4,000,000) aggregate for Products Completed Operations
 - 1.4. Four million dollars (\$4,000,000) General Aggregate

2. The insurance coverage provided by CONTRACTOR shall contain language providing coverage up to one (1) year following the completion of the contract in order to provide insurance coverage for the hold harmless provisions herein if the policy is a claims made policy.

7-1.06C(2) Conformity of Coverages

If more than one policy is used to meet the required coverages, such as a separate umbrella policy, such policies shall be consistent with all other applicable policies used to meet these minimum requirements. For example, all policies shall be Occurrence Liability policies or all shall be Claims Made Liability policies, if approved by the County as noted above. In no cases shall the types of policies be different.

7-1.06D Endorsements

Each Comprehensive or Commercial General Liability policy shall be endorsed with the following specific language:

A. "The County of Placer, its officers, agents, employees, and volunteers are to be covered as an additional insured for all liability arising out of the operations by or on behalf of the named insured in the performance of this Agreement."

B. "The insurance provided by the Contractor, including any excess liability or umbrella form coverage, is primary coverage to the County of Placer with respect to any insurance or self-insurance programs maintained by the County of Placer and no insurance held or owned by the County of Placer shall be called upon to contribute to a loss."

C. "This policy shall not be changed without first giving thirty (30) days prior written notice and ten (10) days prior written notice of cancellation for non-payment of premium to the County of Placer."

7-1.06E Automobile Liability Insurance

Automobile Liability insurance covering bodily injury and property damage in an amount no less than two million dollars (\$2,000,000) combined single limit for each occurrence.

Covered vehicles shall include owned, non-owned, and hired automobiles/trucks.

7-1.06F Professional Liability Insurance (Errors & Omissions)

Professional Liability Insurance for Errors and Omissions coverage in the amount of not less one million dollars (\$1,000,000)

7-1.06G Pollution Liability

Contractor shall purchase and thereafter maintain, so long as such insurance is available on a commercially reasonable basis, Pollution Liability insurance in the amount of \$1,000,000 covering liability arising from the sudden and accidental release of pollution on the Facility Site.

7-1.06H Additional Requirements

7-1.06H(1) Premium Payments

The insurance companies shall have no recourse against the COUNTY and funding agencies, its officers and employees or any of them for payment of any premiums or assessments under any policy issued by a mutual insurance company.

7-1.06H(2) Policy Deductibles

The CONTRACTOR shall be responsible for all deductibles in all of the CONTRACTOR's insurance policies. The maximum amount of allowable deductible for insurance coverage required herein shall be \$25,000.7-1.06H(3) CONTRACTOR's Obligations

CONTRACTOR's indemnity and other obligations shall not be limited by the foregoing insurance requirements and shall survive the expiration of this agreement.

7-1.06H(4) Verification of Coverage

CONTRACTOR shall furnish the County with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the County before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONTRACTOR's obligation to provide them. The County reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

7-1.06H(5) Material Breach

Failure of the CONTRACTOR to maintain the insurance required by this agreement, or to comply with any of the requirements of this section, shall constitute a material breach of the entire agreement.

Add to section 7-1.11A.

Each subcontract and any lower-tier subcontract that may in turn be made shall include the "Required Contract Provisions Federal-Aid Construction Contracts" in Section 7 of these special provisions.

Noncompliance shall be corrected. Payment for subcontracted work involved will be withheld from progress payments due or to become due, until correction is made. Failure to comply may result in termination of the contract.

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8 PROSECUTION AND PROGRESS

Replace the 8th item in the list in the 1st paragraph of section 8-1.02B(2) with:

8. Start milestone date as the receipt of the NTP.

Replace section 8-1.02C(3)(a) with:

8-1.02C(3)(a) General

Submit a description of your proposed schedule software for authorization.

Software must be compatible with the current version of the Microsoft Windows operating system in use by the Engineer.

Replace section 8-1.02C(5) with:

8-1.02C(5) Baseline Schedule

Submit a baseline schedule and all support data within 10 days of Contract approval. Allow 10 days for review after the submittal.

Starting the week the baseline schedule is first submitted, meet with the Engineer weekly to discuss and resolve schedule issues until the baseline schedule is accepted.

The baseline schedule must include the entire scope of work and how you plan to complete all work contemplated.

The baseline schedule must show the activities that define the critical path. Multiple critical paths and near-critical paths must be kept to a minimum. A total of not more than 50 percent of the baseline schedule activities must be critical or near critical unless otherwise authorized.

The baseline schedule must not extend beyond the number of original working days.

Replace the 1st and 2nd paragraphs of section 8-1.04B with:

8-1.04B Standard Start

Start job site activities within 5 days after receiving the NTP.

Submit a notice 72 hours before starting job site activities. If the project has more than 1 work location, submit a separate notice for each location.

You may start job site activities before receiving the NTP if you:

1. Deliver the signed Contract, bonds, and evidence of insurance to the Department
2. Submit a 72-hour notice
3. Obtain an encroachment permit from the Department
4. Receive the Department's authorization to start
5. Perform work at your own risk
6. Perform work under the Contract

If the Contract is approved, work already performed that complies with the Contract is authorized.

If the Contract is not approved, leave the job site in a neat condition. If a facility has been changed, restore it to its former condition or an equivalent condition. The Department does not pay for the restoration.

The Department does not adjust time for work performed before Contract approval.

Add to section 8-1.05:

Construction activity shall be limited to between 6 a.m. and 8 p.m. Monday through Friday, and between 8 a.m. and 6 p.m. on Saturday. No work is permitted on Sunday.

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9 PAYMENT

Add to section 9-1.16F:

No retainage will be withheld by the agency from progress payments due the prime contractor. Retainage by the prime contractor or subcontractors is prohibited and no retainage will be held by the prime contractor from progress due subcontractors. Any violation of this provision shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the California Business and Professions Code. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor or deficient subcontract performance, or noncompliance by a subcontractor.

As provided in California Public Contract Code 7200(b), you may not retain monies from progress payments to subcontractors, and subcontractors may not retain monies from their subcontractors. The exceptions provided in Public Contract Code 7200(c) shall not apply. You may require subcontractors to furnish payment and performance bonds issued by an admitted surety insurer.

Replace section 9-1.17D with:

9-1.17D Final Payment and Claims

If the Contractor files a timely written statement of claims in response to the proposed final estimate, the County will submit a claim position letter to the Contractor by hand delivery or deposit in the U.S. mail. The claim position letter will delineate the County's position on the Contractor's claims. If the Contractor disagrees with the claim position letter, the Contractor shall submit a written notification of its disagreement to be received by the County not later than 15 calendar days after the Contractor's receipt of the claim position letter. The written notification of disagreement shall set forth the basis for the Contractor's disagreement and be submitted to the office designated in the claim position letter. The Contractor's failure to provide a timely, written notification of disagreement shall constitute the Contractor's acceptance and agreement with the determinations provided in the claim position letter and with final payment pursuant to the claim position letter.

If the Contractor files a timely notification of disagreement with the County claim position letter, the County Director of Public Works or a board of review appointed by the County Director of Public Works shall review claims that remain in dispute and may meet with the Contractor within 45 calendar days after receipt by the County of the notification of disagreement. Attendance by the Contractor at the County meeting concerning the notification of disagreement shall be mandatory.

If the County fails to submit a claim position letter to the Contractor within 135 calendar days after the acceptance of the contract and the Contractor has claims that remain in dispute, the Contractor may request a meeting with the County Director of Public Works or a board of review appointed by the County Director of Public Works to review claims that remain in dispute. The Contractor's request for a meeting shall identify the claims that remain in dispute. If the Contractor files a request for a meeting, the County Director of Public Works or a board of review appointed by the County Director of Public Works will meet with the Contractor within 45 calendar days after the County receives the request for the meeting. Attendance by the Contractor at this review meeting shall be mandatory. Failure of the Contractor to file a timely written statement of claims in response to the proposed final estimate, or to file a timely notification of disagreement with the County's claim position letter, or to attend the County's review meeting shall constitute a failure to pursue diligently and exhaust the administrative remedies in the contract and shall be a bar to future legal proceedings by Contractor.

Replace section 9-1.22 with:

9-1.22 ARBITRATION

9-1.22A General

All claims filed with the County must be in writing and include the documents necessary to substantiate the claim. Claims must be filed within the time limits set forth in this contract. In no circumstances, however, may a claim be filed after the day of final payment. Nothing in this subsection is intended to extend the time limit or supersede notice requirements for the filing of claims as set forth elsewhere in this contract.

9-1.22B Claims of \$50,000.00 or Less

The County will respond in writing to all written claims less than or equal to fifty thousand dollars (\$50,000.00) within forty-five (45) calendar days of receipt of the claim. Within thirty (30) calendar days of receipt of the claim, the County may request any additional documentation supporting the claim or relating to defenses or claims the County may have against the claimant.

If additional information is thereafter required, it shall be requested and provided pursuant to this subsection, upon mutual agreement of the County and the claimant.

The County's written response to the claim, as further documented, shall be submitted to the claimant within fifteen (15) calendar days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

9-1.22C Claims Between \$50,000.00 and \$375,000.00

The County will respond in writing to all written claims between fifty thousand dollars and one cent (\$50,000.01) and less than or equal to three hundred seventy-five thousand dollars (\$375,000.00), within sixty (60) calendar days of receipt of the claim. Within thirty (30) calendar days of receipt of the claim, the County may request, in writing, any additional documentation supporting the claim or relating to defense to the claim the County may have against the claimant.

If additional information is thereafter required, it shall be requested and provided pursuant to this Subdivision, upon mutual agreement of the County and the claimant.

The County's written response to the claim, as further documented, shall be submitted to the claimant with in thirty (30) calendar days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information or requested documents, whichever is greater.

9-1.22D Claims in Excess of \$375,000.00

The County shall, within a reasonable time after the presentation of any claim in excess of \$375,000.00, make a decision in writing on such claim.

9-1.22E Meet and Confer Conference

If the claimant disputes the County's written response, or the County fails to respond within the time prescribed, the claimant may so notify the County, in writing, either within fifteen (15) calendar days of receipt of the County's response or within fifteen (15) calendar days of the County's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the County shall schedule a meet and confer conference within thirty (30) calendar days for settlement of the dispute.

If, following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the California Government Code. For the purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the claimant submits his or her written claim pursuant to this Section until the time that claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.

9-1.22F Contractor's Duty During Claim Resolution

The Contractor shall proceed with the Work in accordance with the plans and specifications and determinations and instructions of the County Engineer during the resolution of any claims disputes.

9-1.22G Certification

The Contractor shall certify in writing, at the time of submission of any claim, as follows:

I certify under penalty of perjury under the laws of the State of California, that the claim is made in good faith, that the supporting data are accurate and complete, and that the amount requested accurately reflects the monies due for work performed under the Contract for which the County of Placer is liable.

By: _____
(Contractor's signature)

9-1.22H County Remedies

In the event the Contractor refuses or neglects to make good any loss or damage for which the Contractor is responsible under this Contract, the County may itself, or by the employment of others, make good any such loss or damage, and the cost and expense of doing so, including any reasonable engineering, legal and other consultant fees, and any costs of administrative and managerial services, shall be charged to the Contractor. Such costs and expenses may be deducted by the County from claims for payment made by the Contractor for work completed or remaining to be completed.

9-1.22I Assignment

In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to this contract, the Contractor and all subcontractors shall offer and agree to assign to the County all rights, title, and interest in and to all causes of action it may have under section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the public works contract or subcontract. This assignment shall be made and become effective at the time the County tenders final payment to the Contractor, without further acknowledgment by the parties.

9-1.22J Contractor Waiver and Limitation

The Contractor agrees that it can be adequately compensated by money damages for any breach of this Contract which may be committed by the County and hereby agrees that no default, act, or omission of the County or the Engineer, shall constitute a material breach of the Contract entitling the Contractor to cancel or rescind the provisions of this Contract or (unless the County shall so consent or direct in writing) to suspend or abandon performance of all or any part of the work. The Contractor hereby waives any and all rights and remedies to which it might otherwise be or become entitled, save only its right to money damages.

9-1.22K Venue

Any litigation arising out of this Contract shall be brought in the Superior Court of Placer County, and the Contractor hereby waives the removal provisions of Code of Civil Procedure Section 394.

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DIVISION II GENERAL CONSTRUCTION

10 GENERAL

Replace *Reserved* Section 10-2 with: 10-2 NOTICING REQUIRMENTS

37-9.01 GENERAL

The Contractor shall deliver a "NOTICE" to all residents and businesses of properties which abut the project streets and those on connecting streets that have no other means of accessing their properties but through the project area. The Contractor will provide a standard "NOTICE" form in sufficient numbers to permit distribution to all homes and businesses. The Contractor will complete the "NOTICE" forms by entering the name of the firm, local and toll-free telephone number, date of issuance, and shall indicate on the notice if the street is closed or open to through traffic only.

"NOTICE" forms shall be issued not later than forty-eight (48) hours prior to any type of work starting on the affected street. The Contractor shall be responsible for removing any "NOTICES" that were not removed by the resident or business after all work is completed by the Contractor or as directed by the Engineer. Any costs associated with towing of vehicles in the way of construction shall be borne by the Contractor. "NOTICE" shall not be left in mailboxes, per Section PO11.2.1 of the Domestic Mail Manual (DMM). The Contractor shall be held liable for any fines.

The Contractor shall notify the Sheriff's Office, Fire Departments, Schools, CHP, U.S. Post Office, and the Engineer forty-eight (48) hours prior to any lane closure. Notification may be in conjunction with the scheduling requirements of the "SCHEDULING" portion of the Standard Specifications and these Special Provisions. The Contractor shall coordinate traffic control with the Sheriff's Department with respect to any special events that may be affected by construction activities. Particular attention shall be given to the construction of adequate facilities on any street to permit the passing of emergency vehicles.

None of the provisions specified herein shall be construed to restrict or prohibit, at any time, the prosecution of items of work which will not interfere with the use of existing streets.

37-9.04 PAYMENT

Full compensation for all work associated with furnishing, distributing and removal, as required, of all Notices; for contracting and coordinating with applicable agencies, schools, etc.; and for all incidentals of work required within this Special Requirements section will be considered as included in the Contract prices for various items of work and no separate payment will be made therefore.

SAMPLE NOTICE

DATE DELIVERED:

Dear Property Owner:

In the interest of minimizing the inconvenience caused by the County's Public Works improvement project, we are providing you 48 hours' notice that the following work is proposed to be done along your property frontage beginning on _____ at a.m./p.m.

_____ Driveway

_____ Fencing

_____ Landscaping

_____ Road Frontage

_____ Drainage

_____ Other _____

We appreciate your patience and cooperation in while this work is underway.

Please call (_____) _____ - _____ to contact the Contractor if you have any questions or wish additional information regarding this work.

Delete section 10-1.03 with Replace section 10-1.03 with:

10-1.03 TIME CONSTRAINTS

Construction activities within the Tahoe Area must be conducted between June 1 to October 31. Exceptions may be approved by the Engineer.

AA

12 TEMPORARY TRAFFIC CONTROL

Replace section 12-1.04 with:

12-1.04 PAYMENT

Flagging costs is included in the lump sum price for Traffic Control System.

Replace section 12-3.11D with:

Payment for maintaining and removing the covers on construction area signs is included in the payment for Traffic Control System.

Payment for construction area signs for temporary traffic control is included in the payment for Traffic Control System.

Replace section 12-4.01C with:

12-4.01C Construction

Personal vehicles of the Contractor's employees shall not be parked on the traveled way, including any section closed to public traffic.

Access shall be permitted to businesses, residences, buildings and driveways adjacent to existing streets, the street under construction or special detours at all times and the Contractor shall provide such temporary approaches as may be require for this purpose. When it is necessary for residents and business places along the project to use a portion of the road under construction, the Contractor shall maintain, within the limits of these specifications, that portion of the road in a suitable condition for such vehicular traffic. Emergency vehicles shall be given priority access to any property in a construction area. The traffic control plan shall indicate how these required accesses will be provided.

The Engineer may authorize a suspension of work during unfavorable weather or other conditions beyond the control of the Contractor. During such a suspension, the Contractor shall make passable and shall open to traffic such portions of the project under improvement and such temporary roadways or portions thereof as may be agreed upon between the Contractor and the Engineer for the accommodation of necessary traffic during the period of suspension. The maintenance of the temporary route, replacement or renewal of any work or materials lost or damaged, removal of any work or materials, and temporary maintenance shall be at the expense of the Contractor.

Where the Contractor's hauling equipment is required to cross traffic, and at such other points which may be necessary to maintain safe traffic conditions, flag men shall be provided on each side of the impairment to stop and direct traffic. Details of this shall be included in the traffic control plans to be submitted for approval by the Engineer.

In the case of damage to detours resulting from storms or other causes, the Contractor shall at once repair the damage, provide other detours, or otherwise provide for routing traffic through construction operations.

Construction zone signs shall be placed on all cross streets where traffic is to be maintained. Such signs shall be placed a sufficient distance from the construction to give motorists adequate warning of the construction.

Radios in good working order for the flaggers shall be used when necessary or directed by the Engineer.

A minimum of one paved traffic lane, not less than ten (10) feet wide, shall be open for use by public traffic during periods of construction. When construction operations are not actively in progress, not less than two such lanes shall be open to public traffic.

The full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays and designated legal holidays, after 3:00 p.m. on Fridays and the day preceding designated legal holidays, and when construction operations are not actively in progress.

Designated legal holidays are January 1st, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, November 11th, Thanksgiving Day, and December 25th. When a designated legal holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When November 11th falls on a Saturday, the preceding Friday shall be a designated legal holiday.

Minor deviations from the requirements of this section concerning hours of work which do not significantly change the cost of the work may be permitted upon the written request of the Contractor if, in the opinion of the Engineer, public traffic will be better served and the work expedited. Such deviations shall not be adopted until the Engineer has indicated his written approval. All other modifications will be made by contract change order.

Add to section 12-4.02A(1):

If any component in the traffic control system is displaced, or ceases to operate or function as specified, from any cause, during the progress of the work, the Contractor shall immediately repair the component to its original condition or replace the component and shall restore the component to its original location.

When lane closures are made for work periods only, at the end of each work period, all components of the traffic control system, except portable delineators placed along open trenches or excavation adjacent to the traveled way, shall be removed from the traveled way and shoulder. If the Contractor so elects, the components may be stored at selected central locations, approved by the Engineer, within the limits of the highway right of way.

One-way traffic shall be controlled through the project in accordance with the plan entitled "Traffic Control System for Lane Closure on Two Lane Conventional Highways," and these Special Provisions.

Utilizing a pilot car will be at the option of the Contractor. If the Contractor elects to use a pilot car, the cones shown along the centerline on the plan need not be placed. The pilot car shall have radio contact with personnel in the work area and the maximum speed of the pilot car through the traffic control zone shall be twenty-five miles per hour (25 m.p.h.).

Contractor shall submit a traffic control plan to the Engineer for approval prior to beginning any construction activities.

Add to section 12-4.02A(3)(a):

The traffic control plan, to be submitted by the Contractor, shall provide for controlling the traffic, including detours and road closures, on County roadways and the bike path in conjunction with the work. The traffic control plan shall be consistent with all specific site conditions and work conditions for this project, including utility and drainage facility adjustment and shoulder backing.

Contractor shall submit three (3) copies of a proposed traffic control plan to the Engineer for review and comments a minimum of five (5) working days prior to the pre-construction conference and a minimum of three (3) weeks prior to the start of construction. If the Contractor makes significant changes to the accepted traffic control plan, these changes must also be prepared and stamped by a civil engineer or traffic engineer.

The traffic control plan shall conform to Plans, Standard Specifications, the Manual of Traffic Controls, cited in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications, the Manual of traffic controls, cited in Section 12 of the Standard Specifications, Caltrans Standard Plan T13 and these Special Provisions.

The traffic control plan shall be accepted by the Engineer prior to the start of construction. The Contractor shall not proceed with any construction until proper traffic control has been provided to the satisfaction of the Engineer. Failure to comply with any specification herein or with direction from the Engineer may result in stoppage of the work until compliance is restored.

Any lost days due to improper traffic control will be charged against the Contractor's allowable working days.

Acceptance by the Engineer of the submitted traffic control plan shall in no way relieve the Contractor of his responsibility for any and all safety requirements conforming to the Standard Specifications, these Special Provisions or others of any public authority having jurisdiction for the safety of persons and property, or to protect them from damage, injury or loss.

Add to the end of section 12-4.02C(8)(a):

For a complete roadway closure, install the changeable message signs at least 7 days before closing the roadway. Notify the Engineer at least 5 business days before installing the signs. If the roadway is not closed on the posted day, change the message and to allow for a 3-business-day advance notice before closure.

Add to section 12-4.02D:

The contract lump sum price paid for "TRAFFIC CONTROL SYSTEM" shall include full compensation for furnishing all labor (including flagging costs), materials (including signs), tools, equipment and incidentals, and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing and disposing of the components of the "Traffic Control System" as shown on the accepted plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and for furnishing the "Traffic Control Plan" acceptable to the Engineer, and no additional compensation will be allowed therefore.

Attention is directed to Sections 9-1.06, "Partial Payments", and 9-1.07, "Payment After Acceptance". Payments for the contract item "TRAFFIC CONTROL SYSTEM" will be made on the basis of the percent of work done on all items of work excluding the item for "TRAFFIC CONTROL SYSTEM".

The adjustment provisions in Section 4-1.03, "Changes," of the Standard Specifications, shall not apply to the item of "TRAFFIC CONTROL SYSTEM." Adjustments in compensation for traffic control system will be made only for increased or decreased traffic control system required by changes ordered by the Engineer and will be made on the basis of the cost of the increased or decreased traffic control necessary. Such adjustment will be made on a force account basis as provided in Section 9-1.03, "Force Account Payment," of the Standard Specifications for increased work, and estimated on the same basis in the case of decreased work.

Traffic control system required by work that is classed as extra work, as provided in Section 4-1.03D of the Standard Specifications, will be paid for as a part of the extra work.

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14 ENVIRONMENTAL STEWARDSHIP

Add to the end of section 14-9.02:

14-9.02A Placer County Air Pollution Control Requirements:

The Contractor shall contact the Placer County Air Pollution Control District (APCD) Engineer prior to the start of construction to determine if any of the equipment to be used on the construction site requires a stationary source or Authority to Construct Permit.

The Contractor shall prepare and submit a Construction Emission/Dust Control Plan to Placer County prior to commencing any work on the project. The plan must address the minimum Administrative requirements found in section 300 and 400 of the APCD Rule 228, Fugitive Dust. The Contractor shall not break ground before the County receives APCD approval of the Construction Emission/Dust Control Plan.

Construction equipment exhaust emissions shall not exceed Placer County Air Pollution Control District Rule 202 Visible Emission limitations. Operators of vehicles and equipment found to exceed opacity limits will be immediately notified by APCD to cease operations and the equipment must be repaired within 72 hours. Additional information regarding rule 202 can be found at: www.placerair.org/1861/Rules.

The Contractor shall submit to the APCD a comprehensive inventory (i.e. make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower or greater) that will be used a total of 40 or more hours for the construction project. The inventory shall be updated, beginning 30 calendar days after any initial work on site has begun, and shall be submitted on a monthly basis throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs. At least three business days prior to the use of subject heavy-duty off-road equipment, the project representative shall provide the APCD with the anticipated construction timeline including start date, and name and phone number of the property owner, project manager, and on-site foreman.

The Contractor shall provide a plan to the Placer County APCD for approval, demonstrating that the heavy-duty (> 50 horsepower) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a project wide fleet-average 20 percent NOx reduction and 45 percent particulate reduction compared to the most recent CARB fleet average. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available.

The Contractor shall suspend all grading operations when fugitive dust exceeds APCD Rule 228 (Fugitive Dust) limitations. The Contractor shall be responsible for having an individual who is CARB-certified to perform Visible Emissions Evaluations (VEE). This individual shall evaluate compliance with Rule 228 on a weekly basis. It is to be noted that fugitive dust is not to exceed 40% opacity and not go beyond property boundary at any time. If lime or other drying agents are utilized to dry out wet grading areas, they shall be controlled as to not to exceed Placer County APCD Rule 228 Fugitive Dust limitations.

Prior to any grading work, the Contractor shall establish an enforcement plan, and submit the plan to the APCD for review, in order to weekly evaluate project-related on-and-off- road heavy-duty vehicle engine emission opacities, using standards as defined in California Code of Regulations, Title 13, Sections 2180 - 2194. An Environmental Coordinator, hired by the Contractor, and who is CARB-certified to perform Visible Emissions Evaluations (VEE), shall routinely evaluate project related off-road and heavy duty on-road equipment emissions for compliance with this requirement. Operators of vehicles and equipment found to exceed opacity limits will be notified by APCD and the equipment must be repaired within 72 hours.

The Contractor shall be responsible for keeping adjacent public thoroughfares clean of silt, dirt, mud, and debris, and shall "wet broom" the streets if silt, dirt, mud, or debris is carried over to adjacent public thoroughfares. Dry mechanical sweeping is prohibited. At a minimum paved roadway surfaces within the construction site shall be swept daily.

An operational water truck shall be available onsite at all times to apply water as needed to prevent dust impacts. All unpaved access roads, parking areas, and staging areas within the construction site shall be watered as needed to prevent dust impacts or applied with non-toxic soil stabilizers. All active construction areas shall be watered at least twice daily or as needed to prevent dust impacts.

Construction vehicles leaving the site shall be cleaned to prevent dust, silt, mud, and dirt from being released or tracked off site. The Contractor shall clean earth moving construction equipment with water a minimum of once per day.

During construction, all traffic speeds on all unpaved surfaces shall be limited to 15 miles per hour or less, unless the road surface and surrounding area is sufficiently stabilized to prevent vehicles and equipment traveling more than 15 miles per hour from emitting dust that is visible crossing the project boundaries.

All trucks hauling soil, sand, and other loose material shall be covered or maintain at least two feet of freeboard in the truck bed.

The Contractor shall suspend all grading operations when wind speeds (including instantaneous gusts) exceed 25 miles per hour and dust is impacting adjacent properties.

The Contractor shall minimize idling time to 5 minutes for all diesel-powered equipment. In addition, low sulfur fuel shall be utilized for all stationary equipment.

The Contractor shall use CARB ultra-low fuel for all diesel-powered mobile and stationary construction equipment.

The Contractor shall, to the greatest degree, use existing power sources (e.g., power poles) or clean fuel generators rather than temporary diesel power generators. If diesel powered generators greater than 50 hp must be used, the Contractor shall either obtain a state issued portable equipment permit or a Placer County APCD issued portable equipment permit.

Full compensation for conforming to the provisions of this section, not otherwise provided for, shall be considered as included in prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

AA

DIVISION V SURFACINGS AND PAVEMENTS

37 BITUMINOUS SEALS

Replace *Reserved* Section 37-7 with:
37-7 TYPE 2 MICROSURFACING (MICRO)

37-7.01 GENERAL

37-7.01A Summary

Section 37-7 applies additional requirements to microsurfacing requirements described in Section 37-2.

37-7.01B Definitions

Not used

37-7.01C Submittals

37-7.01C(1) General

Before the work commences, the Contractor shall submit a signed mix design covering the specific materials to be used on the project. This design will be performed by a laboratory which has experience in designing Micro-Surfacing. After the mix design has been approved, no substitution will be permitted, unless approved by the Engineer

37-7.01C(2) Mix Design

The Contractor shall submit to the Engineer for approval a complete mix design prepared and certified by a laboratory. Compatibility of the aggregate, polymer-modified emulsion, mineral filler, and other additives shall be verified by the mix design. The mix design shall be made with the same aggregate gradation that the Contractor will provide on the project. Recommended tests and values are as follows:

ISSA TEST NO.	DESCRIPTION	SPECIFICATION
ISSA TB-139	<u>Wet Cohesion</u> @ 30 Minutes Minimum (Set)	12 kg-cm Minimum
	@ 60 Minutes Minimum (Traffic)	20 kg-cm Minimum or Near Spin
ISSA TB-109	<u>Excess Asphalt by LWT Sand Adhesion</u>	50 g/ft ² Maximum (538 g/m ² Maximum)
ISSA TB-114	<u>Wet Stripping</u>	Pass (90% Minimum)
ISSA TB-100	<u>Wet-Track Abrasion Loss</u> One-hour Soak	50 g/ft ² (538 g/m ²) Maximum
	Six-day Soak	75 g/ft ² (807 g/m ²) Maximum

The Wet Track abrasion test is performed under laboratory conditions as a component of the mix design process. The purpose of this test is to determine the minimum asphalt content of a slurry system. The Wet Track Abrasion Test is not recommended as a field quality control or acceptance test. Some systems require longer times for the asphalt to adhere to the stone. In these systems, a modified Marshall Stability Test (ISSA TB-148) or Hveem Cohesimeter Test (ASTM D 1560) has been used to confirm asphalt content.

ISSA TEST NO.	DESCRIPTION	SPECIFICATION
ISSA TB-147	<u>Lateral Displacement</u>	5% Maximum
	Specific Gravity after 1,000 Cycles of 125 Pounds (56.71 kg)	2.10 Maximum
ISSA TB-144	<u>Classification Compatibility</u>	11 Grade Points Minimum (AAA, BAA)
ISSA TB-113	<u>Mix Time @ 77°F (25°C)</u>	Controllable to 120 Seconds Minimum

The mixing test is used to predict how long the material can be mixed in the machines before it begins to break. It is more for information to be used by the Contractor than for quality of the end product. The mixing test and set-time test should be checked at the highest temperatures expected during construction. The mix design should report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). The report must clearly show the proportions of aggregate, mineral filler (minimum and maximum), water (minimum and maximum), additive usage, and polymer-modified asphalt emulsion based on the dry weight of the aggregate.

All the component materials used in the mix design shall be representative of the materials proposed by the Contractor to be used on the project.

The percentages of each individual material required shall be shown in the laboratory report. Adjustments may be required during construction, based on field conditions. The Engineer will give final approval for all such adjustments.

COMPONENT MATERIALS	LIMITS
Residual Asphalt	5.5 to 10.5% (5) by dry weight of aggregate
Mineral Filler	0.0 to 3% by dry weight of aggregate
Polymer-Based Modifier	Minimum of 3% solids based on bitumen weight content
Additives	As needed
Water	As required to produce proper mix consistency

37-7.02 MATERIALS

37-7.02A Emulsified Asphalt

The emulsified asphalt shall be a quick-traffic, polymer-modified asphalt emulsion conforming to the requirements specified in AASHTO M208 or ASTM D2397 for CSS-1h. The cement mixing test shall be waived for this emulsion.

The polymer material shall be milled or blended into the asphalt or emulsifier solution prior to the emulsification process.

The minimum amount and type of polymer modifier shall be determined by the laboratory performing the mix design. The minimum amount required will be based on asphalt weight content and will be certified by the emulsion supplier. In general, a three percent (3%) polymer solids, based on asphalt weight, is considered minimum.

The five-day (5) settlement test may be waived, provided job stored emulsion is used within thirty-six (36) hours from the time of the shipment, or the stored material has had additional emulsion blended into it prior to use.

When tested according to the following tests, the emulsion shall meet the requirements of AASHTO M208 or ASTM D2397 for CSS-1h, plus the following

AASHTO TEST NO.	ASTM TEST NO.	QUALITY	SPECIFICATION
AASHTO T59	ASTM D244	Residue after Distillation	64% Minimum

The temperature for this test should be held below 280°F (138°C). Higher temperatures may cause the polymers to break down.

AASHTO TEST NO.	ASTM TEST NO.	TESTS ON RESIDUE	SPECIFICATION
AASHTO T53	ASTM D36	Softening Point	135°F (57°C) Minimum
AASHTO T49	ASTM 2397	Penetration 77°F (25°C)	40 – 90*
	ASTM 2170	Kinematic Viscosity @ 275°F (135°C)	650 cSt/sec. Minimum °F

Each load of emulsified asphalt shall be accompanied with a Certificate of Analysis/Compliance to assure that it is the same as that used in the mix design.

37-7.01B(2) Aggregate

The mineral aggregate used shall be of the type and grade specified for the particular use of the Microsurfacing. The mineral aggregate used shall be black rock aggregate. The black rock aggregate shall be 100% crushed with no rounded particles and black in color. The material shall be free from vegetable matter and other deleterious substances. The use of gray or light-colored aggregate will not be allowed. The Contractor shall specify in the bid proposal the name and location of the black rock aggregate quarry. The Contractor shall submit samples and test results of the black rock aggregate to the Engineer for review and acceptance of the type of grade specified for the particular use of the microsurfacing.

When tested according to the following tests, the aggregate should meet these minimum requirements:

AASHTO TEST NO.	ASTM TEST NO.	QUALITY	SPECIFICATION
AASHTO T176	ASTM D2419	Sand Equivalent	65 Minimum
AASHTO T104	ASTM C88	Soundness	15% Maximum using Na_2SO_4 or 25 % Maximum using MgSO_4
AASHTO T96	ASTM C131	Abrasion Resistance	30% Maximum

The abrasion test is to be run on the parent aggregate. The aggregate should meet state-approved polishing values. Proven performance may justify the use of aggregates that may not pass all of the above tests.

When tested in accordance with AASHTO T27 (ASTM C136) and AASHTO T11 (ASTM C117), the target (mix design) aggregate gradation (including the mineral filler) shall be within one of the following bands (or one currently recognized by your local paving authority).

SIEVE SIZE	TYPE II PERCENT PASSING	TYPE III PERCENT PASSING	STOCKPILE TOLERANCE
3/8 (9.5 mm)	100	100	
# 4 (4.75 mm)	90 – 100	70 – 90	± 5%
# 8 (2.36 mm)	65 – 90	45 – 70	± 5%
# 16 (1.18 mm)	45 – 70	28 – 50	± 5%
# 30 (600 um)	30 – 50	19 – 34	± 5%
# 50 (330 um)	18 – 30	12 – 25	± 4%
#100 (150 um)	10 – 21	7 – 18	± 3%
#200 (75 um)	5 – 15	5 – 15	± 2%

The job mix (target) gradation shall be within the gradation band for the desired type. After the target gradation has been submitted (this should be the gradation that the mix design is based on), then the percent passing each sieve shall not vary by more than the stockpile tolerance shown in the above table for each individual sieve, and still remain within the gradation band. It is recommended that the percent passing shall not go from the high end to the low end of the range for any two consecutive screens.

The aggregate will be accepted at the job location stockpile or when loading into the support units for delivery to the lay-down machine. The stockpile shall be accepted based on five gradation tests according to AASHTO T2 (ASTM D75). If the average of the five tests are within the gradation tolerances, then the materials will be accepted. If the tests show the material to be out, the Contractor will be given the choice to either remove the material or blend other aggregate with the stockpiled material to bring it into specification. Materials used in blending must meet the quality tests before blending and must be blended in a manner to produce a consistent gradation. If blending is used, it will require that a new mix design be performed.

Screening shall be required at the stockpile prior to delivery to the paving machine if there are any problems created by having oversize material in the mix.

37-7.01B(3) Mineral Filler

Mineral filler, if required, shall be any recognized brand of non-air entrained Portland cement or hydrated lime that is free from lumps. It may be accepted upon visual inspection. The type and amount of mineral filler needed shall be determined by a laboratory mix design and will be considered as part of the aggregate gradation. An increase or decrease of less than one percent (1%) may be permitted when the Micro-Surfacing is being placed if it is found to be necessary for better consistency or set times.

37-7.01B(4) Water

The water shall be potable and free of harmful soluble salts or reactive chemicals and any other contaminants.

37-7.01B(5) Additives

Additives may be added to the emulsion mix or any of the component materials to provide the control of the quick-traffic properties. They must be included as part of the mix design and be compatible with the other components of the mix.

37-7.03 CONSTRUCTION

37-7.03A Rate Of Application

The Micro-Surfacing mixture shall be of the proper consistency at all times, so as to provide the application rate required by the surface condition. The average single application rate, as measured by the Engineer, shall be in accordance with the following table:

Aggregate Type	Location	Suggested Application Rate
Type II	Urban and Residential Streets	12 – 18 lbs/yd ²

Suggested application rates are based upon the weight of dry aggregate in the mixture. Application rates are affected by the unit weight of the aggregate.

37-7.03B Equipment

37-7.03B(1) General

All equipment, tools, and machines used in the performance of this work shall be maintained in satisfactory working condition at all times to ensure a high-quality product.

37-7.03B(2) Mixing Equipment

The machine shall be specifically designed and manufactured to lay Microsurfacing. The material shall be mixed by an automatic-sequenced, self-propelled Micro-Surfacing mixing machine, which shall be a continuous-flow mixing unit able to accurately deliver and proportion the aggregate, emulsified asphalt, mineral filler, control setting additive, and water to a revolving multi-blade, double-shafted mixer and to discharge the mixed product on a continuous-flow basis. The machine shall have sufficient storage capacity for aggregate, emulsified asphalt, mineral filler, control additive and water to maintain an adequate supply to the proportioning controls. On major highways, the machine may be required to be a selfloading machine capable of loading materials while continuing to lay microsurfacing, thereby minimizing construction joints. If used, the self-loading machine shall be equipped to allow the operator to have full control of the forward and reverse speeds during applications of the Micro-Surfacing material and be equipped with opposite-side driver stations to assist in alignment. The self-loading device, opposite-side driver stations, and forward and reverse speed controls shall be original equipment manufacturer design.

37-7.03B(3) Proportioning Devices

Individual volume or weight controls for proportioning each material to be added to the mix (i.e. aggregate, mineral filler, emulsified asphalt, additive, and water) shall be provided and properly marked. These proportioning devices are used in material calibration and determining the material output at any time.

37-7.03B(4) Spreading Equipment

The mixture shall be agitated and spread uniformly in the surfacing box by means of twinshafted paddles or spiral augers fixed in the spreader box. A front seal shall be provided to insure no loss of the mixture at the road contact point. The rear seal shall act as a final strike-off and shall be adjustable. The spreader box and rear strike-off shall be so designed and operated that a uniform consistency is achieved to produce a free flow of material to the rear strike-off. The spreader box shall have suitable means provided to side shift the box to compensate for variations in the pavement geometry.

37-7.03B(4)(a) Secondary Strike-Off

A secondary strike-off shall be provided to improve surface texture. The secondary strike-off shall have the same adjustments as the spreader box.

37-7.03B(4)(b) Rut-Filling Box

When required on the plans, before the final surface course is placed, preliminary micro-surfacing material may be required to fill ruts, utility cuts, depressions in the existing surface, etc. Ruts of one-half (1/2) inch (12.7 mm) or greater in depth shall be filled independently with a rut-filling spreader box, either five foot (5) (1.5 m) or six foot (6) (1.8 m) in width. For irregular or shallow rutting of less than one-half (1/2) inch (12.7 mm) in depth, a full-width scratch-coat pass may be used as directed by the Engineer. Ruts that are in excess of one and one-half (1-1/2) inches (38.1 mm) in depth may require multiple placements with the rut-filling spreader box to restore the cross-section. All rut-filling level-up material should cure under traffic for at least a twenty-four (24) hour period before additional material is placed on top of the level up.

37-7.03B(5) Auxiliary Equipment

Suitable surface preparation equipment, traffic control equipment, hand tools, and any other support and safety equipment shall be provided by the Contractor as necessary to perform the work.

37-7.03C Calibration

Each mixing unit to be used in the performance of the work shall be calibrated in the presence of the Engineer prior to construction. Previous calibration documentation covering the exact materials to be used may be acceptable, provided that no more than 60 days have lapsed. The documentation shall include an individual calibration of each material at various settings, which can be related to the machine metering devices. No machine will be allowed to work on the project until the calibration has been completed and/or accepted.

37-7.03D Weather Limitations

Micro-Surfacing shall not be applied if either the pavement or air temperature is below 50° F (10° C) and falling, but may be applied when both pavement and air temperatures are above 45° F (7° C) and rising. No Micro-Surfacing shall be applied when there is the possibility that the finished product will freeze within 24 hours. The mixture shall not be applied when weather conditions prolong opening to traffic beyond a reasonable time.

37-7.03E Application

37-7.03E(1) General

If required, it is recommended that a test strip be placed in conditions similar to those expected to be encountered during the project. When required by local conditions, the surface shall be pre-wetted by fogging ahead of the spreader box. The rate of application of the fog spray shall be adjusted during the day to suit temperatures, surface texture, humidity, and dryness of the pavement. The Micro-Surfacing shall be of the desired consistency upon leaving the mixer. A sufficient amount of material shall be carried in all parts of the spreader at all times so that a complete coverage is obtained. Overloading of the spreader shall be avoided. No lumping, balling, or unmixed aggregate shall be permitted. No streaks, such as those caused by oversized aggregate, shall be left in the finished surface. If excess streaking develops, the job will be topped until the Contractor proves to the Engineer that the situation has been corrected. Excessive streaking is defined as more than four drag marks greater than one-half (1/2) inch wide (12.7 mm) and four inches (4) long (101 mm), or one inch (1) wide (25.4 mm) and three (3) inches long (76.2 mm), in any 29.9 yd² (25 m²) area. No transverse ripples or longitudinal streaks of one-fourth (1/4) inch in depth (6.4 mm) will be permitted, when measured by placing a ten (10) foot (3 m) straight edge over the surface.

37-7.03E(2) Joints

No excess buildup, uncovered areas, or unsightly appearance shall be permitted on longitudinal or transverse joints. The Contractor shall provide suitable-width spreading equipment to produce a minimum number of longitudinal joints throughout the project. When possible, longitudinal joints shall be placed on lane lines. Half passes and odd-width passes will be used only in minimum amounts. If half passes are used, they shall not be the last pass of any paved area. A maximum of three (3) inches (76.2 mm) shall be allowed for overlap of longitudinal lane line joints. Also, the joint shall have no more than a one-fourth (1/4) inch (6.4 mm) difference in elevation when measured by placing a ten (10) foot (3 m) straight edge over the joint and measuring the elevation drop-off.

37-7.03E(3) Mix Stability

The Micro-Surfacing shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be homogeneous during and following mixing and spreading. It shall be free of excess water or emulsion and free of segregation of the emulsion and aggregate fines from the coarser aggregate. Under no circumstances shall water be sprayed directly into the lay-down box while laying microsurfacing material.

37-7.03E(4) Handwork

Areas which cannot be reached with the mixing machine shall be surfaced using hand squeegees to provide complete and uniform coverage. If necessary, the area to be handworked shall be lightly dampened prior to mix placement. Care shall be exercised to leave no unsightly appearance from handwork. The same type of finish as applied by the spreader box shall be required.

37-7.03E(5) Lines

Care shall be taken to ensure straight lines along curbs and shoulders. No runoff on these areas will be permitted. Lines at intersections will be kept straight to provide a good appearance. If necessary, a suitable material will be used to mask off the end of streets to provide straight lines. Edge lines shall not vary by more than ± 2 inches (± 50 mm) horizontal variance in any 96 feet (30 m) of length.

37-7.03E(6) Clean-Up

All areas, such as man-ways, gutters, and intersections, shall have the Micro-Surfacing mix removed as specified by the Engineer. The Contractor shall, on a daily basis, remove any debris associated with the performance of the work.

37-7.03E(7) Sweeping

Initial sweeping shall begin the day after microsurfacing placement. Care shall be taken to avoid unraveling the microsurfacing. Excessive sweeping will not be allowed.

Six sweepings shall be considered as included in the contract price paid for Slurry Seal Type 1 and 2. The first sweeping shall be performed the day after the application is applied. The second sweeping shall be performed three (3) days after the Slurry Seal application is applied. The third sweeping shall be performed one week after the Slurry Seal application is applied. The fourth sweeping shall be performed ten (10) days after the Slurry Seal application is applied. The fifth sweeping shall be performed two weeks after the Slurry Seal application is applied. The sixth sweeping shall be performed three weeks after the Slurry Seal application is applied.

37-7.03E(8) Rolling

Self-propelled pneumatic-tired rollers shall be used for the required rolling of the Slurry Seal. Steel wheel rollers shall not be used, unless requested by the Contractor and approved by the Engineer. The pneumatic-tired rollers shall carry a minimum loading of 3,000 pounds (1,361 kg) on each wheel and a minimum pressure of 90 pounds per square inch in each tire. Foam filled tires will be allowed in lieu of 90 psi.

Rolling of the Slurry Seal coat shall consist of a minimum of nine complete passes on straight roadway sections and fifteen complete passes on cul-de-sac bulbs. Rolling shall begin one day after the Slurry Seal application.

36-1.04 PAYMENT

Microsurfacing will be measured by the ton. The quantity of slurry surfacing to be paid for will be the combined weight of the aggregate and asphaltic emulsion used in the slurry surfacing mixture. The weight of added water and set-control additives used in the slurry surfacing mixture will not be included in the weight of the slurry surfacing to be paid for. The weight of aggregate and asphaltic emulsion will be determined by the methods described in the Standard Specifications except that no deduction will be made for water in the aggregate and asphaltic emulsion.

The contract price paid per ton for micro-surfacing shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the slurry surfacing, complete in place, including costing for, and furnishing mix design, cleaning the surface, furnishing added water and set-control additives, mixing water with asphaltic emulsion for coating the pavement and protecting the seal until it has set, as shown on the plans, and as specified in these Special Provisions, and as directed by the Engineer.

**Replace Reserved Section 37-8 with:
37-8 ASPHALT RUBBER CHIP SEAL**

37-8.01 GENERAL

37-8.01A Summary

This project shall consist of a bituminous surface Stress Absorbing Membrane Interlayer (SAMI) composed of a single application of Asphalt-Rubber material and hot pre-coated 3/8" aggregate.

This specification requires the application of a specified blend of asphalt-rubber binder material (i.e. a field blend product). This specification expressly determines that the asphalt-rubber binder material specified herein (i.e. a field blend product) and modified binder, rubber modified asphalt or PG 76-22TR (i.e. terminal blend products) are sufficiently different such that they are not functionally equivalent. Therefore, any substitutions for the asphalt-rubber binder material specified herein, such as but not limited to any rubber modified asphalt binder (i.e. a terminal blend product) will not be accepted.

This project requires the application of asphalt rubber binder at a reduced rate in the wheel path of up to 0.15 gal/sq yd. Asphalt rubber binder seal coats applied to roadways with high truck traffic volume and high pavement temperatures may be susceptible to bleeding and/or flushing in the wheel paths. The Department's specification for asphalt rubber binder neither specifies nor requires patented or proprietary materials, equipment, devices, or processes.

37-8.01B Definitions

Not used.

37-8.01C Submittals

37-8.02C(1) Asphalt Rubber Binder Formulation

The Asphalt Rubber binder supplier, shall furnish to the Engineer within 5 days of the notice to proceed, the Asphalt Rubber binder formulations which shall contain the following information:

PG Asphalt Cement

1. Source of PG Asphalt
2. Grade of PG Asphalt
3. Percentage of PG Asphalt by total weight of the Asphalt Rubber mixture

Reclaimed Tire Rubber (CRM)

1. Source of CRM
2. Grade of CRM
3. Percentage of CRM by total weight of the Asphalt Rubber mixture

37-8.01D Quality Assurance

Not used

37-8.02 MATERIALS

37-8.02A Asphalt Cement

The type and grade of PG asphalt cement utilized to manufacture the Asphalt Rubber binder shall be PG 58-22, PG 64-16, or PG 70-10 which shall comply with the following requirements:

Climate	PG Grading
Cold	PG 58-22
Moderate	PG 64-16
Hot	PG 70-10

37-8.02B Granulated Reclaimed Tire Rubber

The CRM shall be produced primarily from the processing of whole automobile and truck tires. The rubber shall be produced by ambient temperature grinding processes only. The gradation of the CRM when tested in accordance with ASTM C-136 (dry sieve only) and using a 100 gram sample, shall meet the following requirements:

Sieve Size	Reclaimed Tire CRM Percent Passing
#8 (2.36 mm)	100
#10 (2 mm)	95 - 100
#16 (1.18 mm)	45 - 75
#20 (mm)	---
#30 (600 μm)	2 - 20
#50 (300 μm)	0 - 10
#200 (75 μm)	---

The use of CRM from multiple sources is acceptable provided that the overall blend of rubber meets the gradation requirements.

The individual CRM particles, irrespective of diameter, shall not be greater in length than 3/16 of an inch (5mm).

The CRM shall have a specific gravity of 1.15 ± 0.05 as determined by, and shall be free of loose fabric, wire and other contaminants except that up to 4 percent (by weight of rubber) calcium carbonate or talc may be added to prevent the rubber particles from sticking together. The rubber shall be sufficiently dry so as to be free flowing and not produce a foaming problem when blended with the hot asphalt cement. The CRM shall be accepted by certification from the approved supplier. The Reclaimed Tire CRM material shall conform to the following chemical analysis:

Test	ASTM Test Method	Minimum	Maximum
Acetone Extract	D 297	6.0 %	16.0 %
Ash Content	D 297	-----	8.0 %
Carbon Black Content	D 297	28.0 %	38.0 %
Rubber Hydrocarbon	D 297	42.0 %	65.0 %
Natural Rubber Content	D 297	22.0 %	39.0 %

37-8.02C Asphalt Rubber Binder

The temperature of the blended PG asphalt cement shall not be less than 375° F nor more than 450° F when the CRM is homogenously blended, in the field. The combined materials shall be reacted for a minimum of 120 minutes after the incorporation of all the CRM. The Asphalt Rubber binder shall meet the requirements in the following table when the reaction/interaction is complete

		Hot Climate	Moderate Climate	Cold Climate
Apparent viscosity, 347° F Spindle 3 @ 12 RPM: cps (ASTM D2669)	Min Max	1500 3500	1500 3500	1500 3500
Cone Penetration, 77° F (25° C), 150g, 5 sec; 1/10 dm (ASTM D217)	Min Max	15 45	20 70	25 100
Softening Point, (° C) (ASTM D36)	Min	64° C	62° C	60° C
Resilience, 77° F (25° C), % (ASTM D3407)	Min	40	35	25

The viscosity shall be conducted by using a hand held HAAKE VISCOMETER, with rotor 1, 24mm in depth x 53mm in height, or equivalent. When applying Asphalt Rubber, the reacted Asphalt Rubber binder shall be maintained at a temperature of not less than 375° F and no more than 425° F. If material in a batch of Asphalt Rubber binder is not used within six hours after the reaction period is complete, heating of the material shall be discontinued. When applying Asphalt Rubber, if the Asphalt Rubber binder temperature cools below 300° F and is then reheated, it shall be considered a reheat cycle. The total number of reheat cycles shall not exceed two (2). The binder materials shall be uniformly reheated to a temperature of not less than 320° F for application. Additional scrap tire CRM may be added to the reheated Asphalt Rubber binder and reacted for a minimum of 120 minutes and shall not exceed 10 percent of the total binder weight. Reheated Asphalt Rubber binder shall conform to the requirements for blended Asphalt Rubber binder.

37-8.02D Aggregate Cover Material

Aggregate shall be composed of clean and durable crushed rock or crushed gravel conforming to the following requirements.

If the aggregate is to be crushed stone, it shall be manufactured from sound, hard, durable material of accepted quality and crushed to specification size. All strata, streaks and pockets of clay, dirt, sandstone, soft rock or other unsuitable material accompanying the sound rock shall be discarded and not allowed to enter the crusher.

If the aggregate material is to be crushed gravel, it shall consist of hard, durable fragments of stone or gravel of accepted quality and crushed to specification size. All strata, streaks, pockets of sand, excessively fine gravel, clay or other unsuitable material including all stones, rocks and boulders of inferior quality shall be discarded and not allowed to enter the crusher. The crushing of the gravel shall separate the #4, 3/8 and 1/2 inch sieves and shall have a minimum 95% of the particles with a minimum of one mechanically fractured face and 90% of the particles shall have a minimum of two mechanically fractured faces.

The crushed aggregate or crushed gravel shall not contain more than 8% by weight of flat or elongated pieces and shall be free from wood, roots and vegetable or other organic extraneous matter. The 3/8 inch crushed aggregate or crushed gravel shall have a minimum Cleanness Value (CV) of 80 and shall have a percentage of wear not more than 7 percent at 100 revolutions and not more than 30 percent at 500 revolutions, as determined by ASTM C131 or California Test Method 211.

The crushed aggregate for Asphalt Rubber binder applications shall meet the requirements for the following gradation:

3/8 inch Asphalt Rubber Aggregate Gradation

Sieve Size	Percent Passing
1/2 inch (12 mm)	95 – 100
3/8 inch (9 mm)	70 – 85
1/4 inch (4.75 mm)	0 – 15
#8 (2.36 mm)	0 – 5
#200 (75 µm)	0 – 1
---	---

The aggregate to be utilized shall be hot pre-coated with 0.5 to 1.0 percent PG asphalt cement. The Engineer shall determine the appropriate amount of pre-coat. At no time shall the bag house fines be allowed to be reintroduced back into the hot coated aggregate. The pre-coated aggregate shall have a “salt and pepper” appearance and shall be supplied to the project site at 225° F to 325° F.

37-8.03 CONSTRUCTION

37-8.03A Equipment

37-8.03A(1) General

The equipment used by the Contractor for pavement cleaning and excess aggregate removal shall include operational top dumping pick-up brooms.

37-8.03A(1) Asphalt Rubber Equipment

All equipment utilized in the production and application of AR binder material shall be described as follows:

- a) A PG asphalt cement heating tank with a hot oil heat transfer system or a retort heating system capable of heating the PG asphalt cement to the proper temperature for blending with the CRM.
- b) An Asphalt Rubber mechanical blender shall have a two-stage continuous mixing process capable of producing a homogenous blend of PG asphalt cement and CRM, at the mix design specified ratios, as directed by the Engineer. The mechanical blender shall be equipped with a dual hopper granulated rubber feed system capable of supplying the PG asphalt cement feed system, as not to interrupt the continuity of the blending process. The maximum capacity of the primary blending vessel shall be 500 gallons. Both the primary and secondary blenders shall be equipped with an agitation device orientated vertically in the blending vessel. The mechanical blender shall be capable of fully blending the individual modifier particles (CRM) with the PG asphalt cement. A separate PG asphalt cement feed pump and finished product pump are required. This unit shall have a PG asphalt cement totalizing meter in gallons and a flow rate meter in gallons per minute.
- c) A distributor truck equipped with a heating unit, and an internal mixing device capable of maintaining a uniform mixture of PG asphalt cement and CRM. It shall be equipped with a full circulating spreader bar and pumping system capable of applying the Asphalt Rubber binder material within a 5% tolerance of the specified application rate, and must achieve a uniform covering of the surface to be treated. The distributor shall have a boot board on the rear of the vehicle and a bootman shall accompany the distributor. The bootman shall ride in a position so that all the spray bar tips are in full view and readily assessable for unplugging, if a plugged tip should occur. The distributor truck shall also require a thermometer and a computer rate control (CRC).

37-8.03A(2) Aggregate Cover Material Spreader

The cover material (chip) spreader shall be a self-propelled machine with an aggregate receiving hopper in the rear, belt conveyors to carry the pre-coated aggregate to the front, and a full width spreading hopper. The spreader shall be in good mechanical condition and shall be capable of applying the cover aggregate uniformly across the spread width and at the specified application rate, and heat-treated belts should be installed on the chip spreader.

37-8.03A(3) Rolling Equipment

Sufficient rollers shall be used to cover the width of the aggregate spread with one pass. The first pass shall be made immediately behind the aggregate spreader as the aggregate is being placed. Three (3) complete passes with the pneumatic tire rollers shall be made. The pneumatic-tired rollers shall carry a minimum loading of 3,000 pounds on each wheel and a minimum pressure of 90 pounds per square inch in each tire. Foam filled tires can be utilized.

37-8.03A(4) Hauling Equipment

Trucks for hauling the pre-coated cover aggregate shall be tailgate discharge and shall be equipped with a device to lock onto the hitch of the cover material spreader. Haul trucks shall also be compatible with the cover aggregate spreader so that the dump bed will not push down on the spreader when fully raised, or have too short of a bed which results in aggregate spillage while dumping into the receiving hopper.

37-8.03B Construction Methods

37-8.03B(1) General

Immediately prior to the application of the Asphalt Rubber binder chip seal application, the surface shall be clean in order to insure adequate adhesion of the Asphalt Rubber to the existing pavement surface.

37-8.03B(2) Weather Conditions

Asphalt Rubber binder material shall be applied only when the existing surface is dry and the atmospheric temperature is above 50° F and rising. No material shall be applied when predicted chance of rain is higher than 75 % or when the wind is in excess of 20 mph, as directed by the Engineer.

37-8.03B(3) Asphalt Rubber Binder - Mixing And Reaction

Concerning the Asphalt Rubber binder, the percentage of Reclaimed Tire Rubber CRM shall be a minimum of 18 percent by weight of the total Asphalt Rubber mixture; the exact CRM content shall be determined by the binder design submitted by the Asphalt Rubber supplier. During Asphalt Rubber binder manufacture the CRM percentage shall not fluctuate by more than 1 (one) percent by weight of total Asphalt Rubber mixture, as determined by the original laboratory binder design. .

The temperature of the PG asphalt cement shall be between 375° F and 450° F at the addition of the CRM. The PG asphalt cement, CRM shall be combined and mixed together in the Asphalt Rubber binder, and reacted in the distributor truck or a reaction vessel for a minimum period of 120 minutes from the time the CRM is blended with the PG asphalt cement. The temperature of the Asphalt Rubber binder shall be above 375° F during the reaction period, but shall not exceed 425° F at any time.

When a job delay occurs after full reaction, the Asphalt Rubber binder may be allowed to cool. For application, the Asphalt Rubber binder shall be re-heated slowly just prior to application to a temperature between 375° F and 425° F. An additional quantity of PG asphalt cement and/or CRM may be added to only to Asphalt Rubber binder as required to produce a material with the appropriate viscosity.

37-8.03B(4) Application Of Asphalt Rubber Binder

Placement of the Asphalt Rubber shall proceed only under the following conditions:

- a) The pavement surface temperature shall be 60° F and rising.
- b) The pavement surface is clean and dry.
- c) The wind conditions do not exceed 20 mph.
- d) All of the construction equipment such as the Asphalt-Rubber distributor, aggregate spreader, haul trucks loaded with cover material, rollers and brooms are in position and ready to commence placement operations.
- e) Chance of rain does not exceed 75%.

Asphalt Rubber binder shall be applied to the roadway following the mixing, reacting and blending of Asphalt Rubber binder at a rate of 0.55 to 0.65 gallons per square yard.

Distributor bar height, tip size, distribution, speed and shielding materials shall be utilized to reduce the effects of excess wind upon the spray distribution (fan), of each binder. The Engineer shall delay or reschedule work when high gusting or dusty winds in excess of 20 mph prevent or adversely affect binder or aggregate application.

The application of Asphalt Rubber binder to areas not accessible with the distributor bar on the distributor truck shall be accomplished by using a squeegee or other means approved by the Engineer. The application width shall not exceed 12 feet at any time. Spreader trucks must be equipped with a 12-foot spray bar and single fold wings. Other spray bar configurations will not be allowed.

This project allows the application of asphalt rubber binder at a reduced rate in the wheel path of up to 0.15 gal/sq yd. Asphalt rubber binder seal coats applied to roadways with high truck traffic volume and high pavement temperatures may be susceptible to bleeding and/or flushing in the wheel paths.

Apply the asphalt rubber binder at a reduced rate in the wheel path of up to 0.15 gal/sq yd. The Engineer determines the exact rate. Verify the application rate in the wheel path and the non-wheel path daily, by the California Test 339M, modified as follows:

A. Scope

Modified California Test 339 describes the procedure for determining the transverse spread rate of a bituminous distributor in gallons per square yard.

B. Apparatus

- 1. Balance sensitive to 0.1 gram with a minimum capacity of $\pm 2,000$ grams.
- 2. Suitable weighing box with windshield or enclosed area for balance to ensure no impacts from wind conditions.
- 3. Balance table and/or work bench.

C. Materials

1. 8" x 12" Galvanized Sheet Metal Plates -28 gauge. Verify size of the metal plates used in calculations in Section F.
2. Polyester Filter Roll material.
3. Cementing material.
4. 10" x 13" min. - Manila Envelopes.
5. 30 pound Roofing Felt Paper. Note: The roofing felt paper is available at most home supply stores or roofing suppliers.

D. Preparation of the Test Plates

1. Cut the polyester material from the roll to an 8" x 12" size and cement to the 8" x 12" plate.
2. Number the bottom of each metal plate. One plate for each one (1) foot of roadway surface to be sprayed.
3. Number each manila envelope.
4. Weigh each test plate + polyester filter placed in each manila envelope.
5. Cut the roofing felt paper to a width of 18".

E. Sampling

1. Prior to the distributor approaching, place the roofing felt paper transversely across the pavement surface at the test location and secure with duct tape.
2. Place the metal plates with the 12" width, transversely across the pavement surface, centered on the roofing felt paper.
3. If desired, mark the test location outside the spray area for future reference.
4. After the distributor vehicle has passed, slide the roofing felt paper off the roadway with the test plates remaining in place, and let cool for a minimum of five minutes.
5. Remove each separate metal plate with the polyester material and binder and place in the properly numbered manila envelope. Care should be taken to ensure that each plate has no material loss.
6. Proceed to weighing area and weigh each of the test plates and the manila envelopes and record as the Gross Weight.
7. Determine the Net Weight of the binder.

F. Calculations

To determine the spread rate the following is required:

1. The Specific Gravity of the binder.
2. The field application temperature.

Calculate the spread rate as follows for each plate:

$$1. \frac{\text{Net Weight of Binder (lbs)}}{62.4 \text{ lbs / cf} \times \frac{\text{Net Weight of Binder (lbs)}}{7.48 \text{ lbs / gal}}} \times \text{Sp.Gr.} \times \text{ATF} = \text{lbs / gal at } 60^\circ \text{ F}$$

Where

Sp. Gr. – Binder Specific Gravity

lbs – pounds

cf – cubic feet

gal – gallon

ATF – Application Temperature Factor. Use Column A from Temperature Conversion Table in Section 93 of the Standard Specifications when the density at 60 deg F is greater than 60.3 lbs/cf (0.9963)

2. _____ lbs / gal x 0.074 sq yd** x 454 grams / lbs = _____ grams x sq yd / gal

Where

** Test Plate 8" x 12" = 96 sq. in.

$$\frac{96 \text{ sq in}}{1,296 \text{ sq. in./sq yd}} = 0.0741 \text{ sq yd}$$

sq yd – square yards

sq in – square inches

Verify plate dimensions and adjust accordingly.

Net Weight of Binder

3. _____ = _____ gal / sq yd (spread rate)

#2 Above grams x sq yd / gal

4. Record the spread rate for each plate across the lane. .

The Contractor shall comply with all Federal, State and Local environmental laws, regulations and ordinances.

37-8.03B(5) Application Of Aggregate Cover Material

The 3/8 inch cover material shall be applied immediately onto the Asphalt Rubber membrane at a rate of 28 to 34 pounds per square yard. The actual rate selected within this range will be determined in the field based on the appearance of the Asphalt Rubber chip seal after initial rolling.

At the time of application the temperature of the aggregate shall range from 225° F to 325° F.

37-8.03B(6) Rolling

Sufficient rollers shall be used for the initial rolling to cover the width of the aggregate spread with one pass. The first pass shall be made immediately behind the cover material spreader (chip-box) as the aggregate is being placed. If the spreading is stopped for an extended period, the cover material spreader (chip-box) shall be moved ahead or off the chip seal surface so that all cover material may be immediately rolled. Three complete passes shall be made with the pneumatic rollers.

37-8.04 PAYMENT

Asphalt rubber chip seal will be paid by the square yard.

39 ASPHALT CONCRETE

Add to Section 39-1.03:

39-1.03A Safety Edge

Utilize an approved Safety EdgeSM system to create a sloped edge profile onto the roadway shoulder. Utilize an approved Safety EdgeSM system that compacts the AC and provides a sloped wedge equal to 1:1.2 to 1:2.0 measured from the pavement surface cross slope extended. The use of a single plate strike off is not allowed. The Safety EdgeSM shall be constructed monolithically with the AC pavement.

Utilize an approved Safety EdgeSM system that is adjustable to accommodate varying paving thicknesses.

All Safety EdgeSM systems to be used for the purpose of creating a Safety EdgeSM must meet the approval of the Engineer. The Engineer may require proof that the system has been used on previous projects with acceptable results or may require a test section constructed prior to the beginning of work to demonstrate the edge shape and compaction to the satisfaction of the Engineer.

Replace the 2nd paragraph in section 39-2.03A(1) with:

You may not produce RHMA-G using a WMA additive technology.

Replace *Reserved* in section 39-2.03A(4)(a):

Engineer will test in accordance with sections 39-2.01A(4)(h)(viii) Density Cores and 39-2.01A(4)(i)(ii) In Place Density to verify the density of the pavement. No deductions will be taken for this testing since method compaction is required by this contract.

Replace *Reserved* in section 39-2.03B(1):

The grade of asphalt binder for RHMA-G must be PG 64-16. Binder material for RHMA at all sites must contain a minimum of 300 lbs (equivalent to 15% by weight) of tire-derived crumb rubber per ton of rubberized binder. The binder may be either asphalt rubber/field blend or terminal blend.

Replace the Aggregate Gradation Requirements table in the first paragraph of section 39-2.03B(4)(b) with:

RHMA-G pavement thickness shown	Gradation
0.10 to 0.20 (as shown on project plans)	1/2 inch

Add to the beginning of section 39-2.03C:

Place all RHMA-G using method compaction.

Schedule cold planing activities so that not more than 24 hours elapses between the time the pavement is cold planed and the HMA is placed.

HMA for temporary taper must be:

- [illegible]

AA

DIVISION VII DRAINAGE FACILITIES

71 EXISTING DRAINAGE FACILITIES

Add to Section 71-5.04:

Adjust Manhole Frame And Cover is paid as each.

Contractor is responsible for furnishing new frames and covers if existing castings are damaged during the lowering or raising of existing manholes and valve boxes.

Section 9-1.06 "Changed Quantity Payment Adjustments" of the Standard Specifications does not apply to this item. Compensation for the number of frames and covers adjusted will be made at the contract price regardless of the quantity adjusted and no additional compensation will be allowed.

AA

DIVISION VIII MISCELLANEOUS CONSTRUCTION

78 INCIDENTAL CONSTRUCTION

Replace *Reserved* Section 78-3 with:

78-3 ADJUST VALVES, MONUMENTS, UTILITIES, AND COM VAULTS

37-8.01 GENERAL

Adjust all frames and covers of existing water valve boxes, survey monument boxes, traffic control/loop detector hand hole boxes and sanitary sewer clean-out boxes, drainage inlets, etc. to grade. Contractor is responsible for furnishing new frames and covers if existing castings are damaged during the lowering or raising of existing manholes, valve boxes, etc.

Section 9-1.06 "Changed Quantity Payment Adjustments" of the Standard Specifications does not apply to this item. Compensation for the number of frames and covers adjusted will be made at the contract price regardless of the quantity adjusted and no additional compensation will be allowed.

Adjust all utility box Frames and Covers shall be adjusted to new finished grade $\pm 1/4"$ ($1/2"$ to $3/4"$ below new finished grade above 2000' elevation) measured at all locations along the edge of the lid. No adjustment shall begin prior to finish rolling of top lift of HMA.

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